

**BY ORDER OF THE
SECRETARY OF THE AIR FORCE**

**AIR FORCE INSTRUCTION 13-1CRC,
VOLUME 2**



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Nuclear, Space, Missile, Command and Control

**CONTROL AND REPORTING CENTER
EVALUATION CRITERIA**

COMPLIANCE WITH THIS PUBLICATION IS MANDATORY

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This instruction implements Air Force Policy Directive (AFPD) 10-9, *Lead Command Designation and Responsibilities for Weapon Systems*, AFPD 13-1, *Command and Control Enterprise*, AFPD 13-2, *Air Traffic, Airfield, Airspace and Range Management* and AFI 13-1CRC, Volume 1, *Control and Reporting Center (CRC) Training*. This Air Force Instruction (AFI) applies to all combat coded CRCs assigned to Air Combat Command (ACC), United States Air Forces Europe-Air Forces Africa (USAFE-AFAFRICA), and Air National Guard (ANG). This AFI applies to specific non-combat coded units, to include the Direct Reporting Units (DRU), 18th Aggressor Squadron, 81st Range Squadron, 98th Range Squadron, 266th Range Squadron, Utah Test and Training Range, 133d Test Squadron (TS), 552d Air Control Group (ACG), and 752d Operations Support Squadron (OSS). This instruction gives Standardization/Evaluation Examiners and crew members performance standards and procedures for conducting positional evaluations. This AFI does not apply to the US Air Force Reserve. Offices of Collateral Responsibility (OCR) for this publication are Headquarters (HQ) Pacific Air Forces (PACAF)/A8X, USAFE-AFAFRICA/A3C, National Guard Bureau (NGB)/A3Y, and HQ ACC/A3C. This publication does not apply to Air Education and Training Command (AETC) formal training unit (FTU) operations. AETC take for reference only to ensure equitable standards and commonality in development of CRC FTU evaluation criteria, policies, and programs. AETC 13 series instructions relating to CRC evaluations will be routed to the OPR of this publication for coordination prior to certification and approval. Major Commands (MAJCOM) are to forward proposed MAJCOM-level supplements to this volume to HQ USAF/A3OY, for approval prior to publication in accordance with (IAW) AFI 33-360,

Publications and Forms Management. Copies of approved and published MAJCOM-level supplements will be provided by the issuing MAJCOM to HQ USAF/A3OY, HQ ACC/A3C, and the user MAJCOM and NGB offices of primary responsibility (OPR). The reporting requirement in this publication is exempt from licensing in accordance with (IAW) AFI 33-324, *The Air Force Information Collections and Reports Management Program*.

The authorities to waive wing/unit level requirements in this publication are identified with a Tier (“T-0, T-1, T-2, T-3”) number following the compliance statement. See AFI 33-360 for a description of the authorities associated with the Tier numbers. Submit requests for waivers through the chain of command to the appropriate Tier waiver approval authority, or alternately, to the Publication OPR for non-tiered compliance items.

Refer recommended changes and questions about this publication to the Office of Primary Responsibility (OPR) using the AF Form 847, *Recommendation for Change of Publication*; route AF Forms 847 from the field through the appropriate functional chain of command.

Ensure that all records created as a result of processes prescribed in this publication are maintained IAW AFMAN 33-363, *Management of Records*, and disposed of IAW the Air Force Records Disposition Schedule (RDS).

SUMMARY OF CHANGES

This volume contains substantial changes that update and clarify evaluation requirements and must be completely reviewed. Major changes include standardizing evaluation areas 1-14 for all crew positions, updating terminology, and establishing instructor evaluation requirements. Waiver authorities have been changed to reflect guidance in AFI 33-360, *Publications and Forms Management*.

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Chapter 1

GENERAL INFORMATION

1.1. General. This volume, in conjunction with AFI 13-1STAN/EVAL Vol. 2, provides both the Stan Eval Examiner (SEE) and examinee with procedures and evaluation criteria for use during positional evaluations (Initial Qualification (INIT QUAL), Qualification (QUAL), Mission Qualification (MSN), Requalification (RQ), and Spot (SPOT) Evaluations). Specific areas are prescribed to ensure an accurate assessment of the proficiency and capabilities of operations personnel. SEEs and examinees will be thoroughly familiar with the prescribed rating criteria in this document.

1.1.1. The criteria apply to all Active Component (AC) and ANG, Combat Mission Ready (CMR) and Basic Mission Capable (BMC) operations crew members performing duties in Modular Control Equipment (MCE) equipped units. Throughout this instruction, AFSC 13B refers to Air Battle Managers (ABM) and Air Force Specialty Code (AFSC) 1C5X1D refers to Weapons Directors (WD).

1.1.2. Offices of Collateral Responsibility (OCR) for this publication are Headquarters (HQ) Pacific Air Forces (PACAF)/A8X, USAFE-AFAFRICA/A3C, National Guard Bureau (NGB)/A3Y, and HQ ACC/A3C. This publication does not apply to Air Education and Training Command (AETC) formal training unit (FTU) operations. AETC take for reference only to ensure equitable standards and commonality in development of CRC FTU evaluation criteria, policies, and programs. AETC 13 series instructions relating to CRC evaluations will be routed to the OPR of this publication for coordination prior to certification and approval.

1.2. Roles and Responsibilities.

1.2.1. **HQ Air Combat Command/A3.** ACC/A3 is designated Lead Command for the Modular Control System and the CRC. ACC/A3C is the OPR for this volume and will:

1.2.1.1. Process all requests for changes to this volume. Changes to this volume will be coordinated with user Commands and forwarded for approval to AF/A3OY. Specific procedures will be in accordance with (IAW) [Paragraph 1.3](#) of this volume.

1.2.1.2. Address time sensitive changes by AF Guidance Memorandum (AFGM). Coordinate AFGM IAW AFI 33-360 with NGB/A3Y, AETC/A3Z, USAFE-AFAFRICA/A3C and PACAF/A8X so that appropriate guidance can be issued in those Major Commands (MAJCOM).

1.2.1.3. Provide overarching guidance and monitor the overall evaluation criteria.

1.2.1.4. Provide command assistance in the resolution of major evaluation criteria problems.

1.2.1.5. Provide assistance, guidance, and resources to subordinate units for the implementation, direction, and monitoring of the evaluation criteria to include ACC-gained units.

1.2.2. HQ USAFE-AFAFRICA/A3C, PACAF/A8X

1.2.2.1. Provide assistance, guidance, and resources to subordinate units for the implementation, direction, and monitoring of the evaluation criteria.

1.2.2.2. Ensure MAJCOM supplements to this volume are sent to ACC/A3C for coordination prior to AF/A3O approval.

1.2.2.3. As the theater OPR for MAJCOM level evaluation criteria matters, will provide assistance, guidance, and resources to subordinate units for the implementation, direction, and monitoring of the evaluation criteria.

1.2.3. NGB/A3Y

1.2.3.1. Ensure ANG supplements to this volume are sent to ACC/A3C for coordination prior to AF/A3O approval.

1.2.3.2. Unless specifically noted otherwise, waiver requests from ACC-gained units will include information copies to NGB/A3YG.

1.2.4. Group

1.2.4.1. Ensure unit Stan/Eval evaluations are managed and conducted IAW AFI 13-1 Stan/Eval Vol. 2.

1.2.5. Squadron Commanders

1.2.5.1. Ensure positional evaluations are conducted and documented IAW AFI 13-1 Stan Eval Vol. 2.

1.2.5.2. Ensure personnel/crews are evaluated to a level of mission/combat readiness that meets the unit Designed Operational Capability (DOC) statement and mission requirements.

1.3. Supplements/Waivers

1.3.1. Supplements.

1.3.1.1. MAJCOMs will coordinate their supplement to this instruction with AF/A3OY before publication and forward one copy to AF/A3OY after publication. MAJCOM/A3s will approve MAJCOM supplements. Supplements will not contain procedures that are contrary to this instruction.

1.3.1.2. Units, with NAF oversight, will forward their supplements through appropriate channels to the NAF and respective MAJCOMs for review, coordination, and approval (**T-3**). ANG units will coordinate their supplement with NGB/A3Y as well as the NAF with Stan/Eval oversight responsibility (**T-2**). The NAF with Stan/Eval oversight responsibility will be the approval authority for unit supplements and will provide the applicable MAJCOM a copy of the approved supplement (**T-2**).

1.3.1.2.1. DRUs will specify their equivalent/unique duty positions and evaluation requirements in their unit supplement (T-2).

1.3.1.2.2. Supplementary guidance will not be less restrictive than the basic publication, but can be more restrictive (T-2).

1.3.1.2.3. Supplemental guidance will not contradict the basic publication (T-2).

1.3.2. Waivers.

1.3.2.1. Waiver authority for requirements of this volume will be IAW AFI-33-360, Publications and Forms Management(T-3). Waiver requests must come from commanders (or civilian directors) of the affected unit seeking relief from compliance through the command chain up to the appropriate tier approval authority (i.e., Tier 0, 1, 2, 3) (or publications approval authority if non-tiered)(T-3). See AFI 33-360 for definition of Tier Ratings.

1.3.2.1.1. Waiver requests will be sent via email or memorandum, and include the following (T-3):

1.3.2.1.1.1. Reference and text of the specific requirement for which the commander/director is requesting a waiver.

1.3.2.1.1.2. Rationale for the waiver: Explain which of the following three reasons IAW AFI 33-360, apply and describe why;

1.3.2.1.1.2.1. The cost of compliance creates unacceptable risk to a higher priority task;

1.3.2.1.1.2.2. The expected cost of compliance outweighs the benefit;

1.3.2.1.1.2.3. Personnel cannot comply with the requirement due to a lack of resources (training, funds, equipment, facilities, guidance or manpower).

1.3.2.1.1.3. Time period or circumstance for which the waiver will be required (T-3).

1.3.2.1.1.4. Risk mitigation measures the requesting commander will implement during the waiver period (T-3).

1.3.2.1.1.5. Impact if waiver is disapproved.

1.3.2.1.1.6. Approved waivers will be uploaded into the unit's Management Internal Control Toolset (MICT) for inspection activity review and publication OPR's situational awareness/filing (T-2).

1.3.3. USAFE-AFAFRICA/A3C, PACAF/A8X, and NGB/A3Y will forward a copy of all approved waivers for their units to ACC/A3C. (T-2). ACC/A3C will, in turn, forward a copy of all approved waivers for their units to USAFE-AFAFRICA/A3C, PACAF/A8X, and NGB/A3Y. (T-2). Units will forward all approved waivers and report all deviations or exceptions without waiver, through their chain of command to MAJCOM OPR (T-2).

1.3.4. Approval/denial of waiver requests will be completed IAW AFI 33-360, 1.9.4.3 (T-2).

1.3.5. Duration of waivers will be IAW AFI 33-360 and may be approved for a period not to exceed the requested waiver period or 30 calendar days after the approving commander's tour length, whichever is shorter. Because waivers are the expression of a specific commander accepting risk, Tier 1, 2, and 3 waivers automatically expire 30 days after a change of command unless the new commander renews the waiver.

1.3.6. Unless directed by the waiver authority, trainees continue to train while waiver requests are being staffed.

1.3.7. File a copy of approved written waivers with this volume IAW AFI 33-360.

1.4. Procedures

1.4.1. Evaluation Methods. The primary methods of determining the examinee's level of job knowledge and proficiency are academic testing and observation of job performance. The questioning of examinees during the positional portion of the evaluation will be limited to items not determined by observation, but related to the scenarios being employed for evaluation (T-3).

1.4.2. Examiners conduct evaluations IAW this AFI. Examiners administer positional evaluations only within their weapon system/crew specialty and only evaluate those mission/skill sets in which they maintain qualification unless specifically authorized in this instruction.

1.4.3. Evaluation Procedures. The examiner will provide the examinee a briefing explaining how the evaluation will be conducted (T-3). The examinee will accomplish all mission planning appropriate for the type of evaluation (T-3). The examiner will evaluate the examinee's performance for each graded area and note discrepancies when deviations from prescribed performance criteria occur during the evaluation (T-3). The judgment of the examiner will be the determining factor in assigning the overall grade for the examinee's performance (T-3).

1.4.3.1. Prior to Evaluation. The SEE explains the purpose of the evaluation and how it is conducted. The examinee will accomplish all mission planning appropriate for the type of evaluation (T-3).

1.4.3.2. During Evaluation. The SEE will evaluate the examinee's performance for each graded area and note discrepancies when deviations from prescribed performance criteria occur during the evaluation (T-3).

1.4.3.3. Post Evaluation. The SEE will compare the examinee's performance with the grading criteria and will assign an appropriate grade for each area (T-3). The SEE will consider cumulative momentary deviations (T-3). The judgment of the SEE will be the determining factor in assigning an overall grade for the examinee's performance (T-3). The SEE will thoroughly critique all aspects of the evaluation (T-3). During this critique, the SEE will review the examinee's overall rating, specific deviations, area grades assigned, and any additional training which the examinee will be required to complete (T-3). All initial qualification or initial instructor evaluations resulting in Exceptionally Qualified (EQ), Qualified 2 (Q2), or Q3 will be debriefed with the examinee's squadron commander/operations officer (or designated representative) and flight commander (or designated representative) (T-3).

1.4.3.4. The examiner will not occupy a primary crew position during the evaluation (T-3).

1.4.4. Acceptance and conduct of evaluations from outside the parent MAJCOM.

1.4.4.1. Evaluations will be accepted between ACC, USAFE-AFAFRICA, AETC, and ANG CRCs (T-3).

1.4.4.2. Unit examiners may give evaluations outside of their organization, to include administering evaluations outside of their MAJCOM. If administering evaluations outside of the examiner's MAJCOM, the evaluation will be specifically requested by the

MAJCOM Stan Eval organization of the examinee and approved by the MAJCOM Stan Eval organization of the examiner IAW AFI 13-1STAN/EVAL Vol. 2 (T-2).

1.4.5. SEE Objectivity Evaluations. SEE Objectivity Evaluations will be given IAW AFI13-1STAN/EVAL Vol. 2, paragraph 5.2.5.2 after initial selection as a SEE and at the discretion and direction of the unit CC thereafter (T-3).

1.5. Grading Policies

1.5.1. Examiners will use the rating policy contained in AFI 13-1STAN/EVAL Vol. 2 and the evaluation criteria in this instruction for conducting evaluations (T-2). Use of these criteria will ensure standard and objective evaluations are administered to crew members. SEEs and crew members will be thoroughly familiar with the prescribed grading criteria in this regulation. A three-tier grading system (Q, Q-, or Unqualified (U)) will be used for all areas except those designated as CRITICAL, in which case a two-tier grading system (Q or U) will be used (T-2). An overall rating of "Unqualified" could result from an unqualified rating of a single critical or multiple noncritical areas.

1.5.2. Critical Areas. Critical grading areas have been established for evaluations. Critical areas are defined as events that require adequate accomplishment by the examinee in order to successfully achieve the mission objectives and complete the evaluation. If an examinee receives a "U" grade in any critical area, the overall grade for the evaluation will also be unqualified (T-3). Critical areas are identified by "(CRITICAL)" following the applicable area title.

1.5.3. Crew members receiving an overall Q-3 on either their QUAL or MSN evaluation will be immediately downgraded to UQ status and must complete a RQ IAW AFI 13-1STAN/EVAL Vol. 2 (T-3).

Chapter 2

EVALUATION REQUIREMENTS

2.1. General. All evaluations follow the guidelines set in AFI 13-1STAN/EVAL Vol. 2. Evaluation requirements are depicted in each crew position's evaluation criteria section.

2.1.1. Required Evaluation Areas. Required evaluation areas are defined as all areas (and associated sub-areas) annotated with an "R" in this document. The examiner evaluates the examinee's performance in all required areas. Required areas may be graded using simulation or a verbal evaluation when a required area cannot be evaluated during live/virtual operations because of equipment malfunctions, weather conditions, operational requirements, or lack of adequate operating airspace. Examiners will make every effort to evaluate all required areas during the live/virtual portion before resorting to this alternative (T-3). If an alternate evaluation method is used, the examiner documents the method under the Mission Description paragraph in the Remarks section of the AF Form 8, *Certification of Aircrew Qualification*, IAW AFI 13-1STAN/EVAL Vol. 2.

2.2. Ground Phase Requisites. The following qualification (QUAL) evaluation requisites are common to all crew positions and will be accomplished IAW AFI 13-1STAN/EVAL Vol. 2 and unit directives (T-3). The examinee must satisfy all ground phase requisites within their eligibility period to complete recurring evaluations (T-3). These requisites will be recorded under the Ground Phase area, Section II of the AF Form 8 (T-2).

2.2.1. Closed Book Requisite Exam. Closed book questions will come from Master Question File (MQF)/Local Operating Procedures (LOP) IAW AFI 13-1STAN/EVAL Vol. 2 (T-3). For initial evaluations, all academic examinations will be completed prior to any positional portions of the evaluation unless waived by the unit commander on a case-by-case basis (T-3). For RQ evaluations the written examinations will be completed at the discretion of the Chief, Stan Eval (T-3). Crew members with more than one qualification will complete all applicable closed book exams (T-3).

2.3. Mission Evaluation. The mission (MSN) evaluation will be conducted IAW AFI 13-1STAN/EVAL Vol. 2 (T-3). Crew members with more than one qualification will complete the MSN evaluation in all applicable crew positions (T-3).

2.3.1. Mission Profiles. When conducting positional MSN evaluations, mission profiles will accomplish the following (T-3): reflect unit daily training mission and unit DOC tasking, provide realistic assessment of examinee capabilities, and provide assessment of the application of current tactics. Evaluation profiles will be defined by the unit and will include a scenario and other pertinent information that would normally be available in theater (Special Instructions (SPINS), Air Tasking Order (ATO), Airspace Control Order (ACO), Operational Tasking Data Link (OPTASK LINK), intelligence data such as air and ground order of battle, and political assessment, etc.) (T-3). Mission evaluations may be conducted in the live/virtual/constructive environment IAW AFI 13-1STAN/EVAL Vol. 2.

2.3.1.1. Mission Simulator Evaluations. Simulations (constructive events) may be used to administer any portion of a positional evaluation not requiring a specific live/virtual scenario. Unit SEEs will identify existing simulation scenarios which include adequate activity to meet the evaluation requirements for the required events. If adequate

scenarios do not exist, unit Stan Eval personnel will develop scenario outlines for the simulation activity to be conducted to ensure standardization of both the level of activity and the difficulty for simulation evaluations (T-3). The SEE's judgment will be the determining factor in the effective use of simulation (T-3).

2.4. Instructor Evaluation. All crew members selected for instructor duty must be evaluated to determine their judgment, technical knowledge, instructor ability (including error analysis of student activity), and use of grading documents as well as proficiency in their duty position (T-3). To initially qualify as an instructor, a crew member must successfully complete an initial instructor evaluation (T-3). Subsequent evaluations of instructors are conducted during recurring evaluations in which individuals are qualified to instruct.

2.4.1. Instructors must demonstrate proficiency by instructing a student (or qualified individual acting as a student) (T-3). The examiner may require the examinee to present verbal explanations of equipment operations, procedures, and techniques pertinent to their crew position duties and responsibilities.

2.4.2. Instructor evaluations will be conducted with a student occupying the applicable position whenever possible (T-3). The student performs those duties prescribed by the instructor for the mission being accomplished. The instructor examinee monitors all phases of the mission from an advantageous position and be prepared to demonstrate or explain any area or procedure. The SEE will particularly note the instructor's ability to recognize student difficulties and provide effective, timely corrective action (T-3). Recurring evaluations will be administered in conjunction with required qualification evaluations and will include all areas using both qualification and instructor criteria (T-3).

2.4.3. During qualification evaluations of qualified instructors, the examinee must assume the seat position for a period of time of sufficient length to demonstrate proficiency in the crew position (T-3). The determination of what represents a sufficient length of time is left to the judgment of the SEE. The portion of the mission during which the examinee will occupy the seat position can be determined by the SEE during mission planning or during the course of the mission (T-3).

2.4.4. All instructors will be graded using the following criteria (T-3):

2.4.4.1. INSTRUCTIONAL ABILITY

2.4.4.1.1. **Q.** Demonstrated ability to communicate effectively. Provided appropriate corrective guidance when necessary. Planned ahead and made timely inputs and directive guidance to prevent mission degradations.

2.4.4.1.2. **Q-.** Demonstrated difficulty in communicating with the student. Provided untimely or inappropriate corrective guidance in minor areas or managed time poorly. Had difficulty planning ahead and providing inputs to prevent mission degradation. These discrepancies did not adversely affect safety or mission accomplishment, or adversely affect student progress.

2.4.4.1.3. **U.** Failed to effectively communicate with the student. Did not provide corrective guidance where necessary. Did not plan ahead or anticipate student problems. Deviations adversely affected safety or mission accomplishment or adversely affected student progress.

2.4.4.2. BRIEFINGS/CRITIQUE

2.4.4.2.1. **Q.** Briefings were well organized, accurate, and thorough. Reviewed student's present level of training and defined mission events to be performed. Displayed ability during the critique to reconstruct the flight, offer mission analysis, and provide corrective guidance where appropriate. Completed all training documentation IAW AFI 13-1 CRC Volume 1. Training syllabi grades accurately reflected student performance relative to standard. Provided complete and comprehensive comments on training documentation. Thoroughly debriefed student on objectives and key aspects of the mission through reconstruction as needed. Evaluated student performance and discussed appropriate techniques, highlighted strengths/weaknesses with special emphasis on areas for improvement.

2.4.4.2.2. **Q-.** Minor errors or omissions in briefings, critique and/or training documents did not affect student progress.

2.4.4.2.3. **U.** Briefings were marginal or nonexistent. Did not review student's training folder or past performance. Failed to adequately critique student or provide complete mission analysis. Training syllabi grades did not reflect actual performance of student. Comments in training documentation were incomplete. Strengths and weaknesses were not identified. Overlooked or omitted major discrepancies in the documentation. Incomplete or nonexistent pre-briefing of student's next mission.

2.4.4.3. DEMONSTRATION/PERFORMANCE

2.4.4.3.1. **Q.** Effectively demonstrated procedures and/or techniques during mission planning or mission execution, making clear distinctions between them. Demonstrated thorough knowledge of mission systems, procedures, and all applicable publications and regulations.

2.4.4.3.2. **Q-.** Demonstration of procedures and/or techniques not always effective. Did not

always distinguish between procedures and techniques. Minor discrepancies in knowledge of mission systems, procedures, and/or applicable publications and regulations. Minor discrepancies did not affect safety or adversely affect student progress.

2.4.4.3.3. **U.** Did not demonstrate correct procedures and/or techniques. Did not or could not

distinguish between procedures and techniques. Insufficient knowledge of mission systems, procedures, and/or applicable publications and regulations. These deviations could affect safety or adversely affect student progress.

Chapter 3

MISSION CREW COMMANDER EVALUATIONS

3.1. General. This chapter contains the criteria specifying the tasks required of a qualified Mission Crew Commander (MCC) IAW AFI 13-1STAN/EVAL Vol. 2. Evaluation requirements are outlined in [Table 3.1](#) for MCC and Instructor Mission Crew Commander (IMCC).

3.1.1. Evaluation Objectives

3.1.1.1. Qualification Evaluation. The examinee will be evaluated on his/her ability to accomplish required tasks safely and effectively, IAW technical orders, manuals, directives, and operating procedures applicable to the evaluated mission. (T-3). Qualification evaluations will encompass all areas identified in [Table 3.1](#) (T-3). When possible, the evaluation should be conducted with a full operational crew. When a full operations crew cannot be established, the crew composition will be such to meet the intent of the QUAL evaluation to ensure adequate crew coordination is accomplished (T-3). This will be documented in the Mission Description of the AF Form 8 (T-3). The examinee must demonstrate a degree of knowledge and proficiency essential for successful mission accomplishment and safety of flight (T-3). MCC qualification evaluations may be conducted on live/virtual/constructive missions. Tasks not observed and assessed during the normal course of the evaluation will be evaluated separately while the examinee is on position (T-3). The evaluation will be conducted in a controlled radar and communications jamming environment; otherwise, radar and communications jamming should be simulated (T-3).

3.1.1.2. Mission Evaluation. The examinee will be evaluated on his/her ability to accomplish required tasks safely and effectively, IAW technical orders, manuals, directives, and operating procedures applicable to the evaluation areas table (T-3). Mission evaluations will encompass all areas identified in [Table 3.1](#) for the mission profile performed (T-3). The examinee must demonstrate a degree of knowledge and proficiency essential for successful mission accomplishment, profile execution, and safety of flight. The evaluation should include participation of at least one or more external Theater Air Control System (TACS) units and, when possible, conducted with a full operational crew. When a full operations crew is used, an Air Defense Artillery (ADA) interface may be simulated. When a full operations crew cannot be established, the crew composition will be such to meet the intent of the MSN evaluation to ensure adequate crew coordination is accomplished (T-3). This is documented in the Mission Description of the AF Form 8. Mission evaluations may be conducted on live/virtual/constructive missions. MSN evaluations shall replicate large force employment scenarios with supporting theater documents (SPINS, rules of engagement (ROE), ATO/ACO, etc.), mission packages, and command, control, and electronic warfare (C2EW) and higher headquarters (HHQ) integration (T-3). The evaluation will be conducted in a controlled radar and communications jamming environment; otherwise, radar and communications jamming will be simulated (T-3).

3.1.1.3. Except during an INIT QUAL, there will be instances where an examinee, during the mission, accomplishes all areas required for both the qualification and the mission evaluation. In this case, the evaluation will be annotated as a QUAL/MSN evaluation (T-3). Acceptability of required activity will be based on the SEE's determination that all areas required for a mission and a qualification evaluation have been met (T-3).

Table 3.1. MCC Evaluation Areas (T-3).

Evaluation Areas	QUAL	INSTR	MSN
General			
1. Mission Planning	R		R
2. Briefing/Debriefing	R		R
3. Equipment Setup and Checkout	R		
4. Console Operations and Displays	R		
5. Positional Changeover Briefing			R
6. Emergency Action Procedures and Equipment	R		
7. Authentication Procedures			R
8. COMSEC (CRITICAL)	R	R	R
9. Safety (CRITICAL)	R	R	R
10. Aircraft Emergency (CRITICAL)	R	R	R
Tactical Employment			
11. Coordination (CRITICAL)	R	R	R
12. Crew Discipline (CRITICAL)	R	R	R
13. Radio/Telephone (R/T) Procedures	R		R
14. Electronic Protection (EP) Operations			R
15. Anti-Radiation Missile (ARM) Procedures			R
16. Battle Management	R		R
17. Crew Leadership	R		R
18. Tactical Data Link (TDL) Operations	R		
19. Air Picture Management	R		R
20. Database Initialization (N/A)			
21. Database/System Operations (N/A)			
22. Sensor Operations (N/A)			
Instructor only Areas (Only required for instructor qualified crew members) (Note 1)			
23. Instructional Ability	R	R	R
24. Briefings/Critique	R	R	R
25. Demonstration and Performance	R	R	R
R = Required evaluation area.			
Note 1: A grade of "U" in these areas results in an overall grade of 3 for the instructor portion of			

the evaluation.

3.2. Evaluation Criteria. All areas in this section will be graded using the grading policy in AFI 13-1STAN/EVAL Vol. 2 and any criteria listed within the individual areas (T-2).

3.2.1. AREA 1—MISSION PLANNING

3.2.1.1. **Q.** Directed mission crew planning efforts. Determined mission tasking, ROE, chain of command, and battle plans from mission planning documents. Obtained equipment status and determined impact on operational mission. Read and initialed all items in the Operations Information File (OIF) and/or read files.

3.2.1.2. **Q-.** Directed mission crew planning efforts. Determined mission tasking, ROE, chain of command, and battle plans from mission planning documents. Obtained equipment status and determined impact on operational mission. Read and initialed all items in the OIF and/or read files. Committed errors or omissions that did not adversely affect mission accomplishment.

3.2.1.3. **U.** Failed to direct mission crew planning efforts. Failed to determine mission tasking, ROE, chain of command, and/or battle plans from mission tasking documents. Failed to obtain equipment status and/or determine impact of equipment status on operational mission. Failed to read and/or initial all items in the OIF and/or read files. Committed errors or omissions that could have jeopardized mission accomplishment.

3.2.2. AREA 2—BRIEFING/DEBRIEFING

3.2.2.1. **Q.** Attended and participated in all required briefings/debriefings, and extracted/provided all necessary information. Performed briefings/debriefings in an organized, logical sequence IAW applicable directives. Briefed all areas necessary to conduct tasked mission(s) and conducted aircrew briefings/debriefings IAW AFI 11-214, *Air Operations Rules and Procedures*, and other directives. Provided constructive feedback on team and individual performance. Provided specific instructional fixes to correct errors, and requested inputs from others. Summarized mission execution, identified lessons learned, and compared mission results with crew objectives.

3.2.2.2. **Q-.** Attended and participated in all required briefings/debriefings. Briefed areas necessary to conduct the mission and/or conducted briefings/debriefings with aircrew with errors or omissions that did not jeopardize mission accomplishment. Did not effectively establish nor maintain team concept or environment for open communications and feedback.

3.2.2.3. **U.** Failed to attend and participate in all required briefings/debriefings. Conducted crew and aircrew briefings/debriefings with errors or omissions that jeopardized mission accomplishment. Failed to ensure the crew was thoroughly briefed on all aspects of the mission. Failed to establish and maintain team concept and environment for open communications and feedback.

3.2.3. AREA 3—EQUIPMENT SETUP AND CHECKOUT

3.2.3.1. **Q.** Ensured operational checks were completed on all equipment before mission. Ensured equipment outages were reported. Ensured the required radios were available, frequencies assigned, and cryptographic equipment loaded and configured.

Configured the Voice Control Access System (VCAS) for operations as required and accessed as needed IAW mission crew checklists. Setup and operated the Operator Console Unit Work Station (OCUWS) to optimize situational awareness IAW checklists. Directed data base loads and approved changes to data base information.

3.2.3.2. **Q-**. Ensured operational checks were completed on all equipment before mission. Ensured equipment outages were reported. Ensured the required radios were available, frequencies assigned, and cryptographic equipment loaded and configured. Configured the VCAS for operations as required and accessed as needed IAW mission crew checklists. Setup and operated the OCUWS to optimize situational awareness IAW checklists. Directed data base loads and approved changes to data base information. Committed errors or omissions that did not adversely affect mission accomplishment.

3.2.3.3. **U**. Failed to ensure operational checks were completed on all equipment before mission. Failed to ensure equipment outages were reported. Failed to ensure the required radios were available, frequencies assigned, and cryptographic equipment loaded and configured. Failed to configure the VCAS for operations as required and accessed as needed IAW checklists. Failed to setup and operate the OCUWS to optimize situational awareness IAW checklists. Failed to direct data base loads and approved changes to data base information. Committed errors or omissions that could have jeopardized mission accomplishment.

3.2.4. AREA 4—CONSOLE OPERATIONS AND DISPLAYS

3.2.4.1. **Q**. Interpreted, initiated, and updated data for computer displays. Accomplished switch actions and responded to alarms and alerts. Used situation displays and switch actions to optimize situation awareness.

3.2.4.2. **Q-**. Interpreted, initiated, and updated data for computer displays. Accomplished switch actions and responded to alarms and alerts. Used situation displays and switch actions to optimize situation awareness. Committed errors or omissions that did not adversely affect mission accomplishment.

3.2.4.3. **U**. Failed to interpret, initiate, and update data for computer displays. Failed to accomplish switch actions and respond to alarms and alerts. Used situation displays and switch actions to optimize situation awareness. Committed errors or omissions that jeopardized mission accomplishment.

3.2.5. AREA 5—POSITIONAL CHANGEOVER BRIEFING

3.2.5.1. **Q**. Briefed the relieving crew member on the current operational situation before departing position. Conducted positional changeover briefing IAW checklist.

3.2.5.2. **Q-**. Briefed the relieving crew member on the current operational situation before departing position. Conducted positional changeover briefing IAW checklist. Committed errors or omissions that did not adversely affect mission accomplishment.

3.2.5.3. **U**. Failed to brief the relieving crew member on the current operational situation before departing position. Did not conduct positional changeover briefing IAW checklist. Committed errors or omissions that jeopardized mission accomplishment.

3.2.6. AREA 6—EMERGENCY ACTION PROCEDURES AND EQUIPMENT

3.2.6.1. **Q.** Demonstrated thorough knowledge of emergency action procedures/equipment. Properly diagnosed emergency. Thoroughly familiar with additional emergency duties. Coordinated with other crew members without delay.

3.2.6.2. **Q-.** Committed errors, omissions, or delays in emergency action procedures or had minor errors in knowledge of emergency procedures/equipment that did not result in an unsafe situation or jeopardize mission accomplishment.

3.2.6.3. **U.** Unsatisfactory knowledge of emergency action procedures/equipment. Misunderstood additional emergency duties. Improperly or ineffectively coordinated with other crew members causing errors, omissions, delays or confusion that resulted in an unsafe situation and/ or jeopardized mission accomplishment.

3.2.7. AREA 7—AUTHENTICATION PROCEDURES

3.2.7.1. **Q.** Authenticated voice transmission within time limits specified on authenticators.

3.2.7.2. **Q-.** Authenticated voice transmission within time limits specified on authenticators. Committed errors or omissions that did not jeopardize mission accomplishment.

3.2.7.3. **U.** Committed errors or omissions that jeopardized mission accomplishment.

3.2.8. AREA 8—COMMUNICATIONS SECURITY (COMSEC) (CRITICAL)

3.2.8.1. **Q.** Used and controlled COMSEC IAW established procedures.

3.2.8.2. **U.** Failed to use and control COMSEC IAW established procedures.

3.2.9. AREA 9—SAFETY (CRITICAL)

3.2.9.1. **Q.** Aware of and complied with all flight safety factors required for safe operation and mission accomplishment. Ensured appropriate safety checks were accomplished as needed. Ensured adequate coordination to prevent unsafe acts. Located safety hazards and explained proper use of safety equipment. Located electrical, fire, and radiation safety hazards in the Operations Module (OM). Located and explained the proper use of fire extinguishers. Located and explained the use of the OM “Master Off” switch.

3.2.9.2. **U.** Was not aware of or did not comply with all flight safety factors required for safe operation or mission accomplishment. Failed to ensure appropriate safety checks were accomplished when needed. Failed to locate safety hazards and/or explain proper use of safety equipment. Failed to locate electrical, fire, and radiation safety hazards in the OM. Failed to locate and/or explain proper use of fire extinguishers. Failed to locate and/or explain the use of the OM “Master Off” switch. Committed errors or omissions that could have jeopardized safety and/or mission accomplishment or resulted in an unsafe act.

3.2.10. AREA 10—AIRCRAFT EMERGENCIES (CRITICAL)

3.2.10.1. **Q.** Recognized the existence of an aircraft emergency. Assisted controlled aircraft experiencing an emergency in a timely manner. Coordinated responses IAW an

emergency checklist. Entered the appropriate emergency point on the scope. Notified crew members of the aircraft emergency.

3.2.10.2. **U.** Failed to recognize an aircraft emergency. Failed to assist controlled aircraft experiencing an emergency. Failed to respond in a timely manner. Did not follow the aircraft emergency checklist. Failed to enter an appropriate emergency point on the scope. Did not notify crew members of aircraft emergency. Committed errors or omissions that led to the loss of the aircraft and/or aircrew, or jeopardized mission accomplishment.

3.2.11. **AREA 11—COORDINATION (CRITICAL)**

3.2.11.1. **Q.** Coordinated with the mission crew to ensure equipment and assets were available and used to accomplish the assigned mission. Ensured coordination and information flow within the section and cross-sections as required.

3.2.11.2. **U.** Failed to coordinate with the mission crew to ensure equipment and assets were available and used to accomplish the assigned mission. Failed to ensure coordination and information flow within the section and cross-sections as required. Committed errors or omissions that jeopardized mission accomplishment.

3.2.12. **AREA 12—CREW DISCIPLINE (CRITICAL)**

3.2.12.1. **Q.** Demonstrated strict professional crew discipline throughout all phases of the mission. Executed the assigned mission in a timely and efficient manner.

3.2.12.2. **U.** Failed to exhibit strict crew discipline. Violated or ignored rules or instructions. Decision or lack thereof resulted in failure to accomplish the assigned mission. Demonstrated poor judgment to the extent, that safety or mission accomplishment was compromised.

3.2.13. **AREA 13—RADIO/TELEPHONE (R/T) PROCEDURES**

3.2.13.1. **Q.** Employed R/T procedures IAW AFI 11-214 and AFTTP 3-1. Acknowledged all communications.

3.2.13.2. **Q-.** Employed R/T procedures with errors or omissions that did not jeopardize mission accomplishment. Performance included errors, omissions, or delays that did not jeopardize mission accomplishment or safety.

3.2.13.3. **U.** Failed to employ R/T procedures IAW AFI 11-214 and AFTTP 3-1. Did not acknowledge all communications.

3.2.14. **AREA 14—ELECTRONIC PROTECTION (EP) OPERATIONS**

3.2.14.1. **Q.** Coordinated with the crew for emission control (EMCON) and EP activities. Ensured the crew and external agencies were notified of Electromagnetic Interference (EMI) and/or Electronic Attack (EA) experienced.

3.2.14.2. **Q-.** Coordinated with the crew for EMCON and EP activities. Ensured the crew and external agencies were notified of EMI and/or EA experienced. Committed errors or omissions that did not adversely affect mission accomplishment.

3.2.14.3. **U.** Failed to coordinate with the crew for EMCON and EP activities. Failed to ensure the crew and external agencies were notified of EMI and/or EA experienced. Committed errors or omissions that jeopardized mission accomplishment.

3.2.15. **AREA 15—ANTI-RADIATION MISSILE (ARM) PROCEDURES**

3.2.15.1. **Q.** Supervised crew responses to an ARM attack. Recognized or received ARM attack profile warning and notified the crew. Complied with ARM attack checklist.

3.2.15.2. **Q-.** Supervised crew responses to an ARM attack. Recognized or received ARM attack profile warning and notified the crew. Complied with ARM attack checklist. Committed errors or omissions that did not adversely affect mission accomplishment.

3.2.15.3. **U.** Failed to supervise crew responses to an ARM attack. Failed to recognize ARM attack profile and/or receive ARM profile warning. Did not notify the crew. Failed to comply with ARM attack checklist. Committed errors or omissions that jeopardized mission accomplishment.

3.2.16. **AREA 16—BATTLE MANAGEMENT**

3.2.16.1. **Q.** Executed the assigned mission in a timely, efficient manner with a full operations crew. Provided guidance to the mission crew on employment of resources, Joint Air Operations Plan (JAOP), Operations Plan (OPLAN), ATO/ACO, OPTASK LINK, SPINS and other mission specific documents, procedures and taskings. Assessed ROE and ID procedures based on changing alert conditions. Directed/supervised/executed allocation of resources (aircraft, ADA) to counter threat IAW ROE and support execution of the airspace control plan (ACP)/ATO. Authorized declaration of targets IAW theater identification (ID) matrix and ROE. Monitored detection, tracking and ID of air traffic within the assigned area. Ensured engagement tactics were commensurate with threat assessment and ROE. Supervised the declaration of targets as hostile based on hostile intent/ hostile act criteria and level of authority. Delegated authorities (i.e. ID, Scramble and Engagement) to the appropriate ABM/WD as required. Supervised mission crew EP efforts to counter EA. Monitored ADA status and directed appropriate ADA weapons alert status through the Air Defense Artillery Fire Control Officer (ADAFCO), when applicable. Disseminated air defense warnings as required. Monitored and directed Personnel Recovery/Combat Search and Rescue (PR/CSAR) efforts as tasked.

3.2.16.2. **Q-.** Executed the assigned mission in a timely, efficient manner with a full operations crew. Provided guidance to the mission crew on employment of resources, JAOP, OPLAN, ATO/ACO, OPTASK LINK, SPINS and other mission specific documents, procedures and taskings. Assessed ROE and ID procedures based on changing alert conditions. Directed/supervised/executed allocation of resources (aircraft, ADA) to counter threat IAW ROE and support execution of the ACP/ATO. Authorized declaration of targets IAW theater ID matrix and ROE. Monitored detection, tracking and ID of air traffic within the assigned area. Ensured engagement tactics were commensurate with threat assessment and ROE. Supervised the declaration of targets as hostile based on hostile intent/ hostile act criteria and level of authority. Delegated

authorities (i.e. ID, Scramble and Engagement) to the appropriate ABM/WD as required. Supervised mission crew EP efforts to counter EA. Monitored ADA status and directed appropriate ADA weapons alert status through the ADAFCO, when applicable. Disseminated air defense warnings as required. Monitored and directed PR/CSAR efforts as tasked. Committed errors or omissions that did not adversely affect mission accomplishment.

3.2.16.3. **U.** Failed to execute the assigned mission in a timely, efficient manner with a full operations crew. Failed to provide guidance to the mission crew on employment of resources, JAOP, OPLAN, ATO/ACO, OPTASK LINK, SPINS and other mission specific documents, procedures and taskings. Failed to assess ROE and ID procedures based on changing alert conditions. Failed to direct/supervise/execute allocation of resources (aircraft, ADA) to counter threat IAW ROE and support execution of the ACP/ATO. Failed to authorize declaration of targets IAW theater ID matrix and ROE. Did not monitor detection, tracking and ID of air traffic within the assigned area. Did not ensure engagement tactics were commensurate with threat assessment and ROE. Failed to direct/supervise the declaration of targets as hostile based on hostile intent/ hostile act criteria and level of authority. Failed to delegate authorities (i.e. ID, Scramble and Engagement) to the appropriate ABM/WD as required. Failed to direct/supervise mission crew EP efforts to counter EA. Failed to monitor ADA status and direct appropriate ADA weapons alert status through the ADAFCO, (when applicable). Did not disseminate air defense warnings as required. Did not monitor and direct PR/CSAR efforts as tasked. Committed errors or omissions that jeopardized mission accomplishment.

3.2.17. **AREA 17—CREW LEADERSHIP**

3.2.17.1. **Q.** Directed/supervised crew functions to ensure accomplishment of mission objectives. Prioritized tasks and available resources to manage crew member workload. Provided/updated threat information to the mission crew as required. Coordinated for scheduled/unscheduled maintenance impacting mission execution. Ensured coordination and information flow within operations. Coordinated with other agencies engaged in air operations and provided oncoming battle management command and control (BMC2) assets an on-station briefing IAW directives. Coordinated with external agencies for identification of aircraft not normally identifiable by the standard identification matrix. Coordinated for declaration of hostiles based on ROE while ID authority rested outside the CRC.

3.2.17.2. **Q-.** Directed/supervised crew functions to ensure accomplishment of the mission. Made minor errors prioritizing tasks and available resources to manage crew member workload. Provided/updated threat information to the mission crew as required. Coordination for scheduled/unscheduled maintenance impacting mission execution was untimely or incomplete. Ensured coordination and information flow within operations with minor errors. Coordinated with other agencies engaged in air operations and provided oncoming BMC2 assets an on-station briefing IAW directives. Coordinated with external agencies for identification of aircraft not normally identifiable by the standard identification matrix. Coordinated for declaration of hostiles based on ROE while ID authority rested outside the CRC. Committed errors or omissions that did not jeopardize mission accomplishment.

3.2.17.3. **U.** Failed to Direct/supervise crew functions as applicable to ensure accomplishment of mission objectives. Failed to prioritize tasks and available resources to manage crew member workload. Failed to provide/update threat information to the mission crew. Did not coordinate for scheduled/unscheduled maintenance. Did not ensure coordination and information flow within operations. Failed to coordinate with other agencies engaged in air operations and/or failed to provide oncoming BMC2 assets an on-station briefing IAW directives. Did not coordinate with external agencies for identification of aircraft not normally identifiable by the standard identification matrix. Failed to coordinate for declaration of hostiles based on ROE while ID authority rested outside the CRC. Committed errors or omissions that jeopardized mission accomplishment.

3.2.18. AREA 18—TACTICAL DATA LINK (TDL) OPERATIONS

3.2.18.1. **Q.** Conducted data link operations. Directed data link employment and modifications to maintain a recognizable air picture (RAP). Reported data link problems IAW established procedures. Supervised the use of the data link coordination network (DCN) to coordinate with other data link agencies, coordinate use of frequencies and/or channels assigned to interface data links and voice coordination networks, and changes in interface configurations as directed. Implemented data link filters as required. Interpreted and responded to data link messages in a timely manner.

3.2.18.2. **Q-.** Conducted data link operations. Directed data link employment and modifications to maintain a RAP. Reported data link problems IAW established procedures. Supervised the use of the DCN to coordinate with other data link agencies, coordinated the use of frequencies and/or channels assigned to interface data links and voice coordination networks, and supervised changes in interface configurations as directed. Implemented data link filters as required. Interpreted and responded to data link messages in a timely manner. Committed errors or omissions that did not jeopardize mission accomplishment.

3.2.18.3. **U.** Failed to conduct data link operations. Failed to direct data link employment and modifications to maintain a RAP. Did not report data link problems IAW established procedures. Failed to supervise the use of the DCN to coordinate with other data link agencies, coordinate the use of frequencies and/or channels assigned to interface data links and voice coordination networks, and supervise changes in interface configurations as directed. Did not implement data link filters as required. Failed to interpret and/or respond to data link messages in a timely manner. Committed errors or omissions that could have jeopardized mission accomplishment.

3.2.19. AREA 19—AIR PICTURE MANAGEMENT

3.2.19.1. **Q.** Ensured the CRC maintained accurate air picture. Recognized air picture/symbology deviations and directed/accomplished corrective action.

3.2.19.2. **Q-.** Ensured the CRC maintained accurate air situation data. Recognized air picture/symbology deviations and directed/accomplished corrective action. Committed errors or omissions that did not adversely affect mission accomplishment.

3.2.19.3. U. Failed to ensure the CRC maintained accurate air situation data. Failed to recognize air picture/symbology deviations and directed/accomplished corrective action. Committed errors or omissions that jeopardized mission accomplishment.

3.2.20. **AREA 20—DATABASE INITIALIZATION (N/A)**

3.2.21. **AREA 21—DATABASE/SYSTEM OPERATIONS (N/A)**

3.2.22. **AREA 22—SENSOR OPERATIONS (N/A)**

3.3. The following areas are applicable to initial instructor upgrade/all recurring evaluations of instructors. Specific criteria are included in [Paragraph 2.4](#) of this instruction.

3.3.1. **AREA 23—INSTRUCTIONAL ABILITY**

3.3.2. **AREA 24—BRIEFINGS/CRITIQUE**

3.3.3. **AREA 25—DEMONSTRATION AND PERFORMANCE**

Chapter 4

SENIOR DIRECTOR EVALUATIONS

4.1. General. This chapter contains the criteria specifying the tasks required of a qualified Senior Director (SD) IAW AFI 13-1STAN/EVAL Vol. 2. Evaluation requirements are outlined in **Table 4.1** for SD and Instructor Senior Director (ISD).

4.1.1. Evaluation Objectives.

4.1.1.1. Qualification Evaluation. The examinee will be evaluated on his/her ability to accomplish required tasks safely and effectively, IAW technical orders, manuals, directives, and operating procedures applicable to the evaluated mission (T-3). Qualification evaluations will encompass all areas identified in **Table 4.1** (T-3). When possible, the evaluation should be conducted with a full operational crew. When a full operations crew cannot be established, the SD will supervise a minimum of two WDs conducting control missions in the live/virtual environment with a crew composition able to meet the intent of the QUAL evaluation to ensure adequate crew coordination is accomplished (T-3). This is documented in the Mission Description of the AF Form 8. The examinee must demonstrate a degree of knowledge and proficiency essential for successful mission accomplishment and safety of flight (T-3). The qualification evaluation will include assessing the examinee's ability to successfully accomplish the areas in **Paragraph 4.2** and control a live/virtual mission (T-3). The control mission profile must meet the minimum requirements of **Paragraphs 4.1.1.4.1** through **4.1.1.4.2** (T-3). SEEs will make the determination as to whether briefed/conducted control activities fulfill control requirements (T-3). The live/virtual mission does not have to conform to a specific profile (e.g., Offensive or Defensive Counterair) if the unit is unable to schedule aircraft to conduct such a mission; however, the examinee will not be evaluated solely on the control of an air refueling mission (T-3). During the QUAL evaluation, Counterair and Air Refueling control must be evaluated (T-3). Tasks not observed and assessed during the course of the evaluation will be evaluated separately while the examinee is on position (T-3). When possible the evaluation will be conducted in a controlled radar and communications jamming environment; otherwise, radar and communications jamming may be simulated (T-3).

4.1.1.2. Mission Evaluation. The examinee will be evaluated on his/her ability to accomplish required tasks safely and effectively, IAW technical orders, manuals, directives, and operating procedures applicable to the evaluation areas table (T-3). Mission evaluations will encompass all required areas identified in **Table 4.1** for the mission profile performed (T-3). SD mission evaluations will be conducted, to the maximum extent possible with a full operations crew (T-3). When a full operations crew cannot be established, the crew composition will be such to meet the intent of the MSN evaluation to ensure adequate crew coordination is accomplished (T-3). This is documented in the Mission Description of the AF Form 8. The examinee must demonstrate a degree of knowledge and proficiency essential for successful mission accomplishment, profile execution, and safety of flight (T-3). Mission evaluations may be conducted in the live/virtual/constructive environment while the examinee supervises a weapons team and controls Counterland missions. When possible, MSN evaluations

will replicate large force employment scenarios with supporting theater documents (SPINS, ROE, ATO/ACO, etc.), mission packages, and ADA interface, C2EW and HHQ integration (T-3). The evaluation shall include participation of at least one or more external TACS units (T-3). If a full operations crew is used, an ADA interface should be simulated. The evaluation will be conducted in a controlled radar and communications jamming environment; otherwise, radar and communications jamming may be simulated (T-3).

4.1.1.3. Except during an INIT QUAL, there will be instances where an examinee, during the mission, accomplishes all areas required for both the qualification and the mission evaluation. In this case, the evaluation will be annotated as a QUAL/MSN evaluation (T-3). Acceptability of required activity will be based on the SEE's determination that all areas required for a mission and a qualification evaluation have been met (T-3).

4.1.1.4. The examinee must control one Counterair, one Counterland, and one Air Refueling mission to complete the evaluation (T-3). Crew members, regardless of designation as combat mission ready (CMR) or basic mission capable (BMC) will complete both QUAL and MSN evaluations (T-3).

4.1.1.4.1. Counterair missions will be conducted where weapons examinees provide tactical or broadcast control, with a minimum of one intercept, as briefed by the aircrew (T-3). The control will be provided to at least two separate fighters/elements simultaneously committed against a minimum of two targets (e.g., 2v2) (T-3). The examiner will ensure the weapons examinee participates in all phases of the mission (T-3). **NOTE:** It is not a requirement for this mission to result in a maneuvering dogfight.

4.1.1.4.2. Air refueling evaluations require control be provided to at least two separate receivers rendezvousing on one or more tankers. The weapons examinee is to demonstrate a close control rendezvous. Switch actions will be used at the discretion of the examinee (T-3).

4.1.1.4.3. Counterland evaluations require the examinee to direct at least one flight of aircraft conducting air-to-surface tactics against a ground objective. The examinee will control the flight from check-in until the prosecution of at least one objective is met (T-3). Switch actions will be used at the discretion of the examinee (T-3). A Counterland mission must include the following elements (T-3):

4.1.1.4.3.1. Airspace management: Assigning altitude blocks, and/or safe deconfliction between aircraft (manned/unmanned)

4.1.1.4.3.2. Target Area Brief: Air or ground picture and the objective area

4.1.1.4.3.3. Dynamic/Deliberate Tasking: Updated or pre-planned objective

4.1.1.4.3.4. MISREP: Mission report

4.1.1.5. Completion of an SD or ISD evaluation, which includes demonstration of competence as an AWO, qualifies the SD to perform as an AWO and the ISD to perform as an AWO or IAWO. An Examiner SD (ESD) may accomplish evaluations on the SD and WD/AWO positions.

4.1.1.6. SDs that were previously qualified as IAWOs may continue to perform IAWO duties under the following conditions:

4.1.1.6.1. The SD must perform IAWO duties on the SD INIT QUAL evaluation and subsequent recurring SD evaluations (T-3).

4.1.1.6.2. AF Form 8 must include the restriction that reads as follows (T-3):
—RESTRICTION: Examinee may only instruct WD/AWO crew members.

Table 4.1. SD Evaluation Areas (T-3).

Evaluation Areas	QUAL	INSTR	MSN
General			
1. Mission Planning	R		R
2. Briefing/Debriefing	R		R
3. Equipment Setup and Checkout	R		
4. Console Operations and Displays	R		
5. Positional Changeover Briefing			R
6. Emergency Action Procedures and Equipment	R		
7. Authentication Procedures			R
8. COMSEC (CRITICAL)	R	R	R
9. Safety (CRITICAL)	R	R	R
10. Aircraft Emergency (CRITICAL)	R	R	R
Tactical Employment			
11. Coordination (CRITICAL)	R	R	R
12. Crew Discipline (CRITICAL)	R	R	R
13. Radio/Telephone (R/T) Procedures	R		R
14. Electronic Protection (EP) Operations			R
15. Anti-Radiation Missile (ARM) Procedures			R
16. Battle Management	R		R
17. Crew Leadership	R		R
18. Airspace Management	R		R
19. Assumption of Control	R		R
20. Counterair Mission	R		
21. Counterland Mission			R
22. Air Refueling Mission	R		
Instructor only Areas (Only required for instructor qualified crew members) (Note 1)			
23. Instructional Ability	R	R	R
24. Briefings/Critique	R	R	R
25. Demonstration and Performance	R	R	R
R = Required evaluation area.			

Note 1: A grade of “U” in these areas results in an overall grade of 3 for the instructor portion of the evaluation.

4.2. Evaluation Criteria. All areas in this section will be graded using the grading policy in AFI 13-1STAN/EVAL Vol. 2 and any criteria listed within the individual areas (T-2).

4.2.1. AREA 1—MISSION PLANNING

4.2.1.1. **Q.** Directed weapons planning efforts. Extracted information from mission planning documents required to execute the tasked mission IAW applicable AFTTP 3-1 volumes and operations directives. Extracted ROE information and assisted in mission planning as applicable. Participated in and extracted pertinent information from a briefing with the aircrew as applicable. Read and initialed all items in the OIF and/or read files.

4.2.1.2. **Q-.** Directed weapons planning efforts. Extracted information from mission planning documents required to execute the tasked mission IAW applicable AFTTP 3-1 volumes and operations directives. Extracted ROE information and assisted in mission planning as applicable. Participated in and extracted pertinent information from a briefing with the aircrew as applicable. Read and initialed all items in the OIF and/or read files. Committed errors or omissions that did not adversely affect mission accomplishment.

4.2.1.3. **U.** Failed to direct weapons planning efforts. Failed to extract mission planning information required to execute the tasked mission IAW applicable AFTTP 3-1 volumes and operations directives. Failed to extract ROE information. Did not participate in or extract pertinent information from a briefing with the aircrew as applicable. Failed to read and/or initial all items in the OIF and/or read files. Committed errors or omissions that jeopardized mission accomplishment.

4.2.2. AREA 2—BRIEFING/DEBRIEFING

4.2.2.1. **Q.** Attended and participated in all required briefings/debriefings and extracted/provided all necessary information. Performed briefings/debriefings in an organized, logical sequence IAW applicable directives. Briefed all areas necessary to conduct tasked mission(s) and conducted aircrew briefings/debriefings IAW AFI 11-214 and other directives. Provided constructive feedback on team and individual performance. Provided specific instructional fixes to correct errors, and requested inputs from others. Summarized mission execution, identified lessons learned, and compared mission results with crew objectives.

4.2.2.2. **Q-.** Attended and participated in all required briefings/debriefings. Briefed areas necessary to conduct the mission and/or conducted briefings/debriefings with aircrew with errors or omissions that did not jeopardize mission accomplishment. Did not effectively establish nor maintain team concept or environment for open communications and feedback.

4.2.2.3. **U.** Failed to attend and participate in all required briefings/debriefings. Conducted crew and aircrew briefings/debriefings with errors or omissions that jeopardized mission accomplishment. Failed to ensure the crew was thoroughly briefed

on all aspects of the mission. Failed to establish and maintain team concept and environment for open communications and feedback.

4.2.3. AREA 3—EQUIPMENT SETUP AND CHECKOUT

4.2.3.1. **Q.** Ensured operational checks were completed on all equipment before mission. Ensured equipment outages were reported. Ensured the required radios were available, frequencies assigned, and cryptographic equipment loaded and configured. Configured the VCAS for operations as required and accessed as needed IAW checklists. Setup and operated the OCUWS to optimize situational awareness IAW checklists. Directed data base loads and approved changes to data base information.

4.2.3.2. **Q-.** Ensured operational checks were completed on all equipment before mission. Ensured equipment outages were reported. Ensured the required radios were available, frequencies assigned, and cryptographic equipment loaded and configured. Configured the VCAS for operations as required and accessed as needed IAW checklists. Setup and operated the OCUWS to optimize situational awareness IAW checklists. Directed data base loads and approved changes to data base information. Committed errors or omissions that did not adversely affect mission accomplishment.

4.2.3.3. **U.** Failed to ensure operational checks were completed on all equipment before mission. Failed to ensure equipment outages were reported. Failed to ensure the required radios were available, frequencies assigned, and cryptographic equipment loaded and configured. Failed to configure the VCAS for operations as required and accessed as needed IAW checklists. Failed to setup and operate the OCUWS to optimize situational awareness IAW checklists. Failed to direct data base loads and approved changes to data base information. Committed errors or omissions that could have jeopardized mission accomplishment.

4.2.4. AREA 4—CONSOLE OPERATIONS AND DISPLAYS

4.2.4.1. **Q.** Interpreted, initiated, and updated data for computer displays. Accomplished switch actions and responded to alarms and alerts. Used situation displays and switch actions to optimize situation awareness.

4.2.4.2. **Q-.** Interpreted, initiated, and updated data for computer displays. Accomplished switch actions and responded to alarms and alerts. Used situation displays and switch actions to optimize situation awareness. Committed errors or omissions that did not adversely affect mission accomplishment.

4.2.4.3. **U.** Failed to interpret, initiate, and update data for computer displays. Failed to accomplish switch actions and respond to alarms and alerts. Used situation displays and switch actions to optimize situation awareness. Committed errors or omissions that jeopardized mission accomplishment.

4.2.5. AREA 5—POSITIONAL CHANGEOVER BRIEFING

4.2.5.1. **Q.** Briefed the relieving crew member on the current operational situation before departing position. Conducted positional changeover briefing IAW checklist.

4.2.5.2. **Q-.** Briefed the relieving crew member on the current operational situation before departing position. Conducted positional changeover briefing IAW checklist. Committed errors or omissions that did not adversely affect mission accomplishment.

4.2.5.3. **U.** Failed to brief the relieving crew member on the current operational situation before departing position. Did not conduct positional changeover briefing IAW checklist. Committed errors or omissions that jeopardized mission accomplishment.

4.2.6. AREA 6—EMERGENCY ACTION PROCEDURES AND EQUIPMENT

4.2.6.1. **Q.** Demonstrated thorough knowledge of emergency action procedures/equipment. Properly diagnosed emergency. Thoroughly familiar with additional emergency duties. Coordinated with other crew members without delay.

4.2.6.2. **Q-.** Committed errors, omissions or delays in emergency action procedures or had minor errors in knowledge of emergency procedures/equipment that did not result in an unsafe situation or jeopardize mission accomplishment.

4.2.6.3. **U.** Unsatisfactory knowledge of emergency action procedures/equipment. Misunderstood additional emergency duties. Improperly or ineffectively coordinated with other crew members causing errors, omissions, delays or confusion that resulted in an unsafe situation and/ or jeopardized mission accomplishment.

4.2.7. AREA 7—AUTHENTICATION PROCEDURES

4.2.7.1. **Q.** Authenticated voice transmission within time limits specified on authenticators.

4.2.7.2. **Q-.** Authenticated voice transmission within time limits specified on authenticators. Committed errors or omissions that did not jeopardize mission accomplishment.

4.2.7.3. **U.** Committed errors or omissions that jeopardized mission accomplishment.

4.2.8. AREA 8—COMMUNICATIONS SECURITY (COMSEC) (CRITICAL)

4.2.8.1. **Q.** Used and controlled COMSEC IAW established procedures.

4.2.8.2. **U.** Failed to use and control COMSEC IAW established procedures.

4.2.9. AREA 9—SAFETY (CRITICAL)

4.2.9.1. **Q.** Aware of and complied with all flight safety factors required for safe operation and mission accomplishment. Ensured appropriate safety checks were accomplished as needed. Ensured adequate coordination to prevent unsafe acts. Located safety hazards and explained proper use of safety equipment. Located electrical, fire, and radiation safety hazards in the OM. Located and explained the proper use of fire extinguishers. Located and explained the use of the OM “Master Off” switch.

4.2.9.2. **U.** Was not aware of or did not comply with all flight safety factors required for safe operation or mission accomplishment. Failed to ensure appropriate safety checks were accomplished when needed. Failed to locate safety hazards and/or explain proper use of safety equipment. Failed to locate electrical, fire, and radiation safety hazards in the OM. Failed to locate and/or explain proper use of fire extinguishers. Failed to locate and/or explain the use of the OM “Master Off” switch. Committed errors or omissions that could have jeopardized safety and/or mission accomplishment or resulted in an unsafe act.

4.2.10. AREA 10—AIRCRAFT EMERGENCIES (CRITICAL)

4.2.10.1. **Q.** Recognized the existence of an aircraft emergency. Assisted controlled aircraft experiencing an emergency in a timely manner. Coordinated responses IAW an emergency checklist. Entered the appropriate emergency point on the scope. Notified crew members of the aircraft emergency.

4.2.10.2. **U.** Failed to recognize an aircraft emergency. Failed to assist controlled aircraft experiencing an emergency. Failed to respond in a timely manner. Did not follow the aircraft emergency checklist. Failed to enter an appropriate emergency point on the scope. Did not notify crew members of aircraft emergency. Committed errors or omissions that led to the loss of the aircraft and/or aircrew, or jeopardized mission accomplishment.

4.2.11. **AREA 11—COORDINATION (CRITICAL)**

4.2.11.1. **Q.** Coordinated with the mission crew to ensure equipment and assets were available and used to accomplish the assigned mission. Ensured coordination and information flow within the section and cross-sections as required.

4.2.11.2. **U.** Failed to coordinate with the mission crew to ensure equipment and assets were available and used to accomplish the assigned mission. Failed to ensure coordination and information flow within the section and cross-sections as required. Committed errors or omissions that jeopardized mission accomplishment.

4.2.12. **AREA 12—CREW DISCIPLINE (CRITICAL)**

4.2.12.1. **Q.** Demonstrated strict professional crew discipline throughout all phases of the mission. Executed the assigned mission in a timely and efficient manner.

4.2.12.2. **U.** Failed to exhibit strict crew discipline. Violated or ignored rules or instructions. Decision or lack thereof resulted in failure to accomplish the assigned mission. Demonstrated poor judgment to the extent, that safety or mission accomplishment was compromised.

4.2.13. **AREA 13—RADIO/TELEPHONE (R/T) PROCEDURES**

4.2.13.1. **Q.** Employed R/T procedures IAW AFI 11-214 and AFTTP 3-1. Acknowledged all communications.

4.2.13.2. **Q-.** Employed R/T procedures with errors or omissions that did not jeopardize mission accomplishment. Performance included errors, omissions, or delays that did not jeopardize mission accomplishment or safety.

4.2.13.3. **U.** Failed to employ R/T procedures IAW AFI 11-214 and AFTTP 3-1. Did not acknowledge all communications.

4.2.14. **AREA 14—ELECTRONIC PROTECTION (EP) OPERATIONS**

4.2.14.1. **Q.** Coordinated with the crew for EMCON and EP activities. Ensured the crew and external agencies were notified of EMI and/or EA experienced.

4.2.14.2. **Q-.** Coordinated with the crew for EMCON and EP activities. Ensured the crew and external agencies were notified of EMI and/or EA experienced. Committed errors or omissions that did not adversely affect mission accomplishment.

4.2.14.3. **U.** Failed to coordinate with the crew for EMCON and EP activities. Failed to ensure the crew and external agencies were notified of EMI and/or EA experienced. Committed errors or omissions that jeopardized mission accomplishment.

4.2.15. **AREA 15—ANTI-RADIATION MISSILE (ARM) PROCEDURES**

4.2.15.1. **Q.** Supervised weapons team responses to an ARM attack. Recognized or received ARM attack profile warning and notified the crew. Complied with ARM attack checklist.

4.2.15.2. **Q-.** Supervised weapons team responses to an ARM attack. Recognized or received ARM attack profile warning and notified the crew. Complied with ARM attack checklist. Committed errors or omissions that did not adversely affect mission accomplishment.

4.2.15.3. **U.** Failed to supervise weapons team responses to an ARM attack. Failed to recognize ARM attack profile and/or receive ARM profile warning, and did not notify the crew. Failed to comply with ARM attack checklist. Committed errors or omissions that jeopardized mission accomplishment.

4.2.16. **AREA 16—BATTLE MANAGEMENT**

4.2.16.1. **Q.** Committed weapons resources to counter the threat IAW theater ROE. Coordinated and/or established combat air patrol (CAP) and hand-over/recovery points as required. Managed air refueling assets and area of responsibility (AOR) fuel requirements. Coordinated airborne orders and scramble/divert alert aircraft when directed or delegated.

4.2.16.2. **Q-.** Committed weapons resources to counter the threat IAW theater ROE. Coordinated and/or established CAP and hand-over/recovery points as required. Managed air refueling assets and AOR fuel requirements. Coordinated airborne orders and scramble/divert alert aircraft when directed or delegated. Committed errors or omission that did not adversely affect mission accomplishment.

4.2.16.3. **U.** Failed to commit weapons resources to counter the threat IAW theater ROE. Failed to coordinate and/or establish CAP and hand-over/recovery points as required. Failed to manage air refueling assets and AOR fuel requirements. Failed to coordinate airborne orders and scramble/divert alert aircraft when directed or delegated. Committed errors or omissions that could have jeopardized mission accomplishment.

4.2.17. **AREA 17—CREW LEADERSHIP**

4.2.17.1. **Q.** Directed/supervised crew functions to ensure accomplishment of mission objectives. Prioritized tasks and available resources to manage crew member workload. Provided/updated threat information to the mission crew as required. Coordinated for scheduled/unscheduled maintenance impacting mission execution. Ensured coordination and information flow within operations. Coordinated with other agencies engaged in air operations and provided oncoming BMC2 assets an on-station briefing IAW directives. Coordinated with external agencies for identification of aircraft not normally identifiable by the standard identification matrix. Coordinated for declaration of hostiles based on ROE while ID authority rested outside the CRC. Directed the weapons team through

degraded operations levels during changing alert conditions. Recommended threat mode changes to the crew as necessary.

4.2.17.2. **Q-**. Directed/supervised crew functions to ensure accomplishment of the mission. Made minor errors prioritizing tasks and available resources to manage crew member workload. Provided/updated threat information to the mission crew as required. Coordination for scheduled/unscheduled maintenance impacting mission execution was untimely or incomplete. Ensured coordination and information flow within operations with minor errors. Coordinated with other agencies engaged in air operations and provided oncoming BMC2 assets an on-station briefing IAW directives. Coordinated with external agencies for identification of aircraft not normally identifiable by the standard identification matrix. Coordinated for declaration of hostiles based on ROE while ID authority rested outside the CRC. Directed the weapons team through degraded operations levels during changing alert conditions. Recommended threat mode changes to the crew as necessary. Committed errors or omissions that did not jeopardize mission accomplishment.

4.2.17.3. **U**. Failed to direct/supervise crew functions as applicable to ensure accomplishment of mission objectives. Failed to prioritize tasks and available resources to manage crew member workload. Failed to provide/update threat information to the mission crew. Did not coordinate for scheduled/unscheduled maintenance. Did not ensure coordination and information flow within operations. Failed to coordinate with other agencies engaged in air operations and/or failed to provide oncoming BMC2 assets an on-station briefing IAW directives. Did not coordinate with external agencies for identification of aircraft not normally identifiable by the standard identification matrix. Failed to coordinate for declaration of hostiles based on ROE while ID authority rested outside the CRC. Failed to direct the weapons team through degraded operations levels during changing alert conditions. Failed to recommended threat mode changes to the crew as necessary. Committed errors or omissions that jeopardized mission accomplishment.

4.2.18. **AREA 18—AIRSPACE MANAGEMENT**

4.2.18.1. **Q**. Complied with airspace management requirements and restrictions IAW procedures. Initiated airspace requests and verified airspace restrictions and limitations IAW applicable directives. Ensured all efforts were made to keep controlled aircraft inside the lateral and vertical confines of the airspace in a timely manner.

4.2.18.2. **Q-**. Complied with airspace management requirements and restrictions IAW procedures. Initiated airspace requests and verified airspace restrictions and limitations IAW applicable directives. Ensured all efforts were made to keep controlled aircraft inside the lateral and vertical confines of the airspace in a timely manner. Committed errors or omissions that did not jeopardize mission accomplishment.

4.2.18.3. **U**. Failed to comply with airspace management requirements and restrictions IAW procedures. Failed to initiate airspace requests and did not verify airspace restrictions and limitations IAW applicable directives. Failed to ensure all efforts were made to keep controlled aircraft inside the lateral and vertical confines of the airspace in a timely manner. Committed errors or omissions that could have jeopardized mission accomplishment.

4.2.19. AREA 19—ASSUMPTION OF CONTROL

4.2.19.1. **Q.** Located mission aircraft using reported position, identification friend or foe/selective identification feature (IFF/SIF), precise participant location and identification (PPLI), pilot maneuvering and/or external sources in a timely manner. Voiced “contact/negative contact” as appropriate. Passed or confirmed altimeter IAW local or theater procedures. Provided aircrew with a working frequency and/or net and time of day (TOD) when applicable. Provided aircrew a situation update. Conducted IFF/SIF checks and advised aircrew of status. Conducted radar handoffs IAW procedures.

4.2.19.2. **Q-.** Located mission aircraft using reported position, IFF/SIF, PPLI, pilot maneuvering and/or external sources in a timely manner. Voiced “contact/negative contact” as appropriate. Passed or confirmed altimeter IAW local or theater procedures. Provided aircrew with a working frequency and/or net and TOD when applicable. Provided aircrew a situation update. Conducted IFF/SIF checks and advised aircrew of status. Conducted radar handoffs IAW procedures. Committed errors or omissions that did not jeopardize mission accomplishment.

4.2.19.3. **U.** Failed to locate aircraft using reported position, IFF/SIF, PPLI, pilot maneuvering and/or external sources in a timely manner. Failed to voice “contact/negative contact” as appropriate. Did not pass or confirm altimeter IAW local or theater procedures. Failed to provide aircrew with a working frequency and/or net and TOD when applicable. Did not provide aircrew a situation update. Failed to conduct IFF/SIF checks and advise aircrew of status. Failed to comply with procedures for conducting radar handoffs. Committed errors or omissions that could have jeopardized mission accomplishment.

4.2.20. AREA 20—COUNTERAIR MISSION

4.2.20.1. **Q.** Controlled aircraft using radar and/or IFF/SIF presentations consistent with continuum of control. Controlled operations that effectively protected assets and/or accomplished the mission. Kept aircraft informed of all factor groups through "Picture" and threat calls. Provided/updated threat information (to include changes in targets and enemy order of battle) to aircraft under control. Identified all factor groups as able. Positioned aircraft to accomplish mission objectives IAW AFI 11-214 and AFTTP 3-1 General Planning consistent with briefed mission, ROE, operations directives, and aircraft capabilities.

4.2.20.2. **Q-.** Controlled aircraft with errors or omissions that did not jeopardize mission accomplishment.

4.2.20.3. **U.** Controlled aircraft with errors or omissions that jeopardized mission accomplishment. Positioning was not consistent with continuum of control, ROE, operations directives and/or mission objectives.

4.2.21. AREA 21—COUNTERLAND MISSION

4.2.21.1. **Q.** Controlled or provided positioning assistance to aircrews using radar and/or IFF/SIF presentations. As required/requested, provided vectoring assistance to route or target points to place aircraft in a position to accomplish mission IAW AFI 11-214 and

AFTTP 3-1 General Planning consistent with briefed mission, ROE, operations directives and aircraft capabilities. Provided/updated threat information (to include changes in targets and enemy order of battle) to aircraft under control. Provided minimum risk/safe passage and flight join up assistance as required/requested.

4.2.21.2. **Q-**. Controlled or provided positioning, vectoring, safe passage, or join up assistance with errors or omissions that did not jeopardize mission accomplishment.

4.2.21.3. **U**. Controlled or provided positioning, vectoring, safe passage, or join up assistance with errors or omissions that jeopardized mission accomplishment.

4.2.22. AREA 22—AIR REFUELING MISSION

4.2.22.1. **Q**. Controlled or provided positioning assistance to aircrews using radar and/or IFF/SIF presentations with a minimum of one close control rendezvous. Prioritized refueling activity and placed receivers and/or tankers in a position within air refueling parameters to accomplish mission objectives IAW AFI 11-214 (with applicable MAJCOM supplement) and AFTTP 3-1 General Planning. Demonstrated receiver turn-on or point parallel tactics. Provided/updated threat information (to include changes in targets and enemy order of battle) to aircraft under control. Obtained and disseminated post-refueling offload information as required. Maintained SA.

4.2.22.2. **Q-**. Controlled or provided positioning assistance to aircrews with errors or omissions that did not jeopardize mission accomplishment.

4.2.22.3. **U**. Controlled or provided positioning assistance to aircrews with errors or omissions that jeopardized mission accomplishment. Final positioning was not within air refueling parameters IAW AFI 11-214.

4.3. The following areas are applicable to initial instructor upgrade/all recurring evaluations of instructors. Specific criteria are included in [Paragraph 2.4](#) of this instruction.

4.3.1. AREA 23—INSTRUCTIONAL ABILITY

4.3.2. AREA 24—BRIEFINGS/CRITIQUE

4.3.3. AREA 25—DEMONSTRATION AND PERFORMANCE

Chapter 5

WEAPONS DIRECTOR/AIR WEAPONS OFFICER (WD/AWO) EVALUATIONS

5.1. General. This chapter contains the criteria specifying the tasks required of a qualified Weapons Director/Air Weapons Officer Qualification Evaluation IAW AFI 13-1STAN/EVAL Vol. 2. Evaluation requirements are outlined in [Table 5.1](#) for WD/AWO and Instructor Weapons Director/Instructor Air Weapons Officer (IWD/IAWO).

5.1.1. Evaluation Objectives

5.1.1.1. Qualification Evaluation. The examinee will be evaluated on his/her ability to accomplish required tasks safely and effectively, IAW technical orders, manuals, directives, and operating procedures applicable to the evaluated mission (T-3).. Qualification evaluations will encompass all areas identified in [Table 5.1](#) (T-3). The examinee must demonstrate a degree of knowledge and proficiency essential for successful mission accomplishment and safety of flight (T-3). WD/AWO qualification evaluations will be conducted on a live/virtual mission. The control mission profile must meet the minimum requirements of [Paragraphs 5.1.1.4.1](#) through [5.1.1.4.3](#) (T-3). SEEs will make the determination as to whether briefed/conducted control activities fulfill control requirements (T-3). The live/virtual mission does not have to conform to a specific profile (e.g., Offensive or Defensive Counterair) if the unit is unable to schedule aircraft to conduct such a mission. During the QUAL evaluation, Counterair and Air Refueling control must be evaluated (T-3). Tasks not observed and assessed during the normal course of the evaluation will be evaluated separately while the examinee is on position (T-3). The evaluation will be conducted in a controlled radar and communications jamming environment; otherwise, radar and communications jamming may be simulated (T-3). When possible, the evaluation will be conducted with a full operational crew (T-3).

5.1.1.2. Mission Evaluation. The examinee will be evaluated on his/her ability to accomplish required tasks safely and effectively, IAW technical orders, manuals, directives, and operating procedures applicable to the evaluation areas table (T-3). Mission evaluations will encompass all required areas identified in [Table 5.1](#) for the mission profile performed (T-3). The examinee must demonstrate a degree of knowledge and proficiency essential for successful mission accomplishment, profile execution, and safety of flight (T-3). Mission evaluations may be conducted in the live/virtual/constructive environment while the examinee controls Counterland missions. When possible, MSN evaluations should replicate large force employment scenarios with supporting theater documents (SPINS, ROE, ATO/ACO, etc.), mission packages, and ADA interface, C2EW and HHQ integration. The evaluation should include participation of at least one or more external TACS units and, when possible, conducted with a full operational crew. If a full operations crew is used, an ADA interface should be simulated. When possible, the evaluation will be conducted in a controlled radar and communications jamming environment; otherwise, radar and communications jamming may be simulated (T-3).

5.1.1.3. There will be instances where an examinee, during the mission, accomplishes all areas required for both the qualification and the mission evaluation. In this case, the evaluation will be annotated as a QUAL/MSN evaluation (T-3). Acceptability of required activity will be based on the SEE's determination that all areas required for a mission and a qualification evaluation have been met (T-3).

5.1.1.4. The examinee must control one Counterair, one Counterland, and one Air Refueling mission to complete the evaluation (T-3). Crew members, regardless of designation as CMR or BMC will complete both QUAL and MSN evaluations (T-3).

5.1.1.4.1. Counterair missions will be conducted where weapons examinees provide tactical or broadcast control, with a minimum of one intercept, as briefed by the aircrew (T-3). The control will be provided to at least two separate fighters/elements simultaneously committed against a minimum of two targets (T-3). The examiner will ensure the weapons examinee participates in all phases of the mission (T-3). **NOTE:** It is not a requirement for this mission to result in a maneuvering dogfight.

5.1.1.4.2. Air refueling evaluations require control be provided to at least two separate receivers rendezvousing on one or more tankers. The weapons examinee is to demonstrate a close control rendezvous. Switch actions will be used at the discretion of the examinee (T-3).

5.1.1.4.3. Counterland evaluations require the examinee to direct at least one flight of aircraft conducting air-to-surface tactics against a ground objective. The examinee will control the flight from check-in to the prosecution of at least one objective is met (T-3). Switch actions will be used at the discretion of the examinee (T-3). A Counterland mission must include the following elements (T-3):

5.1.1.4.3.1. Airspace management: Assigning altitude blocks and/or safe deconfliction between aircraft (manned/unmanned)

5.1.1.4.3.2. Target Area Brief: Air or ground picture and the objective area

5.1.1.4.3.3. Dynamic/Deliberate Tasking: Updated or pre-planned objective

5.1.1.4.3.4. MISREP: Mission report

5.1.1.5. EWDs and EAWOs may evaluate each other and may only evaluate the control portion of the SD evaluation.

Table 5.1. WD/AWO Evaluation Areas (T-3).

Evaluation Areas	QUAL	INSTR	MSN
General			
1. Mission Planning	R		R
2. Briefing/Debriefing	R		R
3. Equipment Setup and Checkout	R		
4. Console Operations and Displays	R		
5. Positional Changeover Briefing			R
6. Emergency Action Procedures and Equipment	R		

7. Authentication Procedures			R
8. COMSEC (CRITICAL)	R	R	R
9. Safety (CRITICAL)	R	R	R
10. Aircraft Emergency (CRITICAL)	R	R	R
Tactical Employment			
11. Coordination (CRITICAL)	R	R	R
12. Crew Discipline (CRITICAL)	R	R	R
13. Radio/Telephone (R/T) Procedures	R		R
14. Electronic Protection (EP) Operations			R
15. Anti-Radiation Missile (ARM) Procedures (N/A)			
16. Battle Management	R		R
17. Crew Leadership (N/A)			
18. Airspace Management	R		R
19. Assumption of Control	R		R
20. Counterair Mission	R		
21. Counterland Mission			R
22. Air Refueling Mission	R		
Instructor only Areas (Only required for instructor qualified crew members) (Note 1)			
23. Instructional Ability	R	R	R
24. Briefings/Critique	R	R	R
25. Demonstration and Performance	R	R	R
R = Required evaluation area.			
Note 1: A grade of “U” in these areas results in an overall grade of 3 for the instructor portion of the evaluation.			

5.2. Evaluation Criteria. All areas in this section will be graded using the grading policy in AFI 13-1STAN/EVAL Vol. 2 and any criteria listed within the individual areas (T-2).

5.2.1. AREA 1—MISSION PLANNING

5.2.1.1. **Q.** Extracted information from mission planning documents required to plan and execute the tasked mission IAW AFTTP 3-1 General Planning and operations directives. Extracted ROE information and assisted in mission planning as applicable. Participated in and extracted pertinent information from a briefing with the aircrew as applicable. Read and initialed all items in the OIF and/or read files.

5.2.1.2. **Q-.** Extracted information from mission planning documents required to plan and execute the tasked mission. Extracted ROE information and assisted in mission planning as applicable. Participated in and extracted pertinent information from a briefing with the aircrew as applicable. Read and initialed all items in the OIF and/or read files. Committed errors or omissions that did not adversely affect mission accomplishment.

5.2.1.3. **U.** Failed to extract mission planning information required to execute the tasked mission. Failed to extract ROE information. Did not participate in or extract pertinent information from a briefing with the aircrew as applicable. Failed to read and/or initial all items in the OIF and/or read files. Committed errors or omissions that jeopardized mission accomplishment.

5.2.2. AREA 2—BRIEFING/DEBRIEFING

5.2.2.1. **Q.** Attended and participated in all required briefings/debriefings and extracted/provided all necessary information. Performed briefings/debriefings in an organized, logical sequence IAW applicable directives. Briefed all areas necessary to conduct tasked mission(s) and conducted aircrew briefings/debriefings IAW AFI 11-214 and other directives. Provided constructive feedback on team and individual performance. Provided specific instructional fixes to correct errors, and requested inputs from others. Summarized mission execution, identified lessons learned, and compared mission results with crew objectives.

5.2.2.2. **Q-.** Attended and participated in all required briefings/debriefings. Briefed areas necessary to conduct the mission and/or conducted briefings/debriefings with aircrew with errors or omissions that did not jeopardize mission accomplishment. Did not effectively establish nor maintain team concept or environment for open communications and feedback.

5.2.2.3. **U.** Failed to attend and participate in all required briefings/debriefings. Conducted crew and aircrew briefings/debriefings with errors or omissions that jeopardized mission accomplishment. Failed to ensure the crew was thoroughly briefed on all aspects of the mission. Failed to establish and maintain team concept and environment for open communications and feedback.

5.2.3. AREA 3—EQUIPMENT SETUP AND CHECKOUT

5.2.3.1. **Q.** Ensured operational checks were completed on all equipment before mission. Ensured equipment outages were reported. Ensured the required radios were available, frequencies assigned, and cryptographic equipment loaded and configured. Configured the VCAS for operations as required and accessed as needed IAW checklists. Setup and operated the OCUWS to optimize situational awareness IAW checklists. Directed data base loads and approved changes to data base information.

5.2.3.2. **Q-.** Ensured operational checks were completed on all equipment before mission. Ensured equipment outages were reported. Ensured the required radios were available, frequencies assigned, and cryptographic equipment loaded and configured. Configured the VCAS for operations as required and accessed as needed IAW checklists. Setup and operated the OCUWS to optimize situational awareness IAW checklists. Directed data base loads and approved changes to data base information. Committed errors or omissions that did not adversely affect mission accomplishment.

5.2.3.3. **U.** Failed to ensure operational checks were completed on all equipment before mission. Failed to ensure equipment outages were reported. Failed to ensure the required radios were available, frequencies assigned, and cryptographic equipment loaded and configured. Failed to configure the VCAS for operations as required and accessed as needed IAW checklists. Failed to setup and operate the OCUWS to optimize situational

awareness IAW checklists. Failed to direct data base loads and approved changes to data base information. Committed errors or omissions that could have jeopardized mission accomplishment.

5.2.4. AREA 4—CONSOLE OPERATIONS AND DISPLAYS

5.2.4.1. **Q.** Interpreted, initiated, and updated data for computer displays. Accomplished switch actions and responded to alarms and alerts. Used situation displays and switch actions to optimize situation awareness.

5.2.4.2. **Q-.** Interpreted, initiated, and updated data for computer displays. Accomplished switch actions and responded to alarms and alerts. Used situation displays and switch actions to optimize situation awareness. Committed errors or omissions that did not adversely affect mission accomplishment.

5.2.4.3. **U.** Failed to interpret, initiate, and update data for computer displays. Failed to accomplish switch actions and respond to alarms and alerts. Used situation displays and switch actions to optimize situation awareness. Committed errors or omissions that jeopardized mission accomplishment.

5.2.5. AREA 5—POSITIONAL CHANGEOVER BRIEFING

5.2.5.1. **Q.** Briefed the relieving crew member on the current operational situation before departing position. Conducted positional changeover briefing IAW checklist.

5.2.5.2. **Q-.** Briefed the relieving crew member on the current operational situation before departing position. Conducted positional changeover briefing IAW checklist. Committed errors or omissions that did not adversely affect mission accomplishment.

5.2.5.3. **U.** Failed to brief the relieving crew member on the current operational situation before departing position. Did not conduct positional changeover briefing IAW checklist. Committed errors or omissions that jeopardized mission accomplishment.

5.2.6. AREA 6—EMERGENCY ACTION PROCEDURES AND EQUIPMENT

5.2.6.1. **Q.** Demonstrated thorough knowledge of emergency action procedures/equipment. Properly diagnosed emergency. Thoroughly familiar with additional emergency duties. Coordinated with other crew members without delay.

5.2.6.2. **Q-.** Committed errors, omissions or delays in emergency action procedures or had minor errors in knowledge of emergency procedures/equipment that did not result in an unsafe situation or jeopardize mission accomplishment.

5.2.6.3. **U.** Unsatisfactory knowledge of emergency action procedures/equipment. Misunderstood additional emergency duties. Improperly or ineffectively coordinated with other crew members causing errors, omissions, delays, or confusion that resulted in an unsafe situation and/ or jeopardized mission accomplishment.

5.2.7. AREA 7—AUTHENTICATION PROCEDURES

5.2.7.1. **Q.** Authenticated voice transmission within time limits specified on authenticators.

5.2.7.2. **Q-**. Authenticated voice transmission within time limits specified on authenticators. Committed errors or omissions that did not jeopardize mission accomplishment.

5.2.7.3. **U**. Committed errors or omissions that jeopardized mission accomplishment.

5.2.8. AREA 8—COMMUNICATIONS SECURITY (COMSEC) (CRITICAL)

5.2.8.1. **Q**. Used and controlled COMSEC IAW established procedures.

5.2.8.2. **U**. Failed to use and control COMSEC IAW established procedures.

5.2.9. AREA 9—SAFETY (CRITICAL)

5.2.9.1. **Q**. Aware of and complied with all flight safety factors required for safe operation and mission accomplishment. Ensured appropriate safety checks were accomplished as needed. Ensured adequate coordination to prevent unsafe acts. Located safety hazards and explained proper use of safety equipment. Located electrical, fire, and radiation safety hazards in the OM. Located and explained the proper use of fire extinguishers. Located and explained the use of the OM “Master Off” switch.

5.2.9.2. **U**. Was not aware of or did not comply with all flight safety factors required for safe operation or mission accomplishment. Failed to ensure appropriate safety checks were accomplished when needed. Failed to locate safety hazards and/or explain proper use of safety equipment. Failed to locate electrical, fire, and radiation safety hazards in the OM. Failed to locate and/or explain proper use of fire extinguishers. Failed to locate and/or explain the use of the OM “Master Off” switch. Committed errors or omissions that could have jeopardized safety and/or mission accomplishment or resulted in an unsafe act.

5.2.10. AREA 10—AIRCRAFT EMERGENCIES (CRITICAL)

5.2.10.1. **Q**. Recognized the existence of an aircraft emergency. Assisted controlled aircraft experiencing an emergency in a timely manner. Coordinated responses IAW an emergency checklist. Entered the appropriate emergency point on the scope. Notified crew members of the aircraft emergency.

5.2.10.2. **U**. Failed to recognize an aircraft emergency. Failed to assist controlled aircraft experiencing an emergency. Failed to respond in a timely manner. Did not follow the aircraft emergency checklist. Failed to enter an appropriate emergency point on the scope. Did not notify crew members of aircraft emergency. Committed errors or omissions that led to the loss of the aircraft and/or aircrew, or jeopardized mission accomplishment.

5.2.11. AREA 11—COORDINATION (CRITICAL)

5.2.11.1. **Q**. Coordinated with the mission crew to ensure equipment and assets were available and used to accomplish the assigned mission. Ensured coordination and information flow within the section and cross-sections as required.

5.2.11.2. **U**. Failed to coordinate with the mission crew to ensure equipment and assets were available and used to accomplish the assigned mission. Failed to ensure coordination and information flow within the section and cross-sections as required. Committed errors or omissions that jeopardized mission accomplishment.

5.2.12. AREA 12—CREW DISCIPLINE (CRITICAL)

5.2.12.1. **Q.** Demonstrated strict professional crew discipline throughout all phases of the mission. Executed the assigned mission in a timely and efficient manner.

5.2.12.2. **U.** Failed to exhibit strict crew discipline. Violated or ignored rules or instructions. Decision or lack thereof resulted in failure to accomplish the assigned mission. Demonstrated poor judgment to the extent, that safety or mission accomplishment was compromised.

5.2.13. AREA 13—RADIO/TELEPHONE (R/T) PROCEDURES

5.2.13.1. **Q.** Employed R/T procedures IAW AFI 11-214 and AFTTP 3-1. Acknowledged all communications.

5.2.13.2. **Q-.** Employed R/T procedures with errors or omissions that did not jeopardize mission accomplishment. Performance included errors, omissions, or delays that did not jeopardize mission accomplishment or safety.

5.2.13.3. **U.** Failed to employ R/T procedures IAW AFI 11-214 and AFTTP 3-1. Did not acknowledge all communications.

5.2.14. AREA 14—ELECTRONIC PROTECTION (EP) OPERATIONS

5.2.14.1. **Q.** Coordinated with the crew for EMCON and EP activities. Ensured the crew and external agencies were notified of EMI and/or EA experienced.

5.2.14.2. **Q-.** Coordinated with the crew for EMCON and EP activities. Ensured the crew and external agencies were notified of EMI and/or EA experienced. Committed errors or omissions that did not adversely affect mission accomplishment.

5.2.14.3. **U.** Failed to coordinate with the crew for EMCON and EP activities. Failed to ensure the crew and external agencies were notified of EMI and/or EA experienced. Committed errors or omissions that jeopardized mission accomplishment.

5.2.15. AREA 15—ANTI-RADIATION MISSILE (ARM) PROCEDURES (N/A)**5.2.16. AREA 16—BATTLE MANAGEMENT**

5.2.16.1. **Q.** Committed weapons resources to counter the threat IAW theater ROE. Coordinated and/or established CAP and hand-over/recovery points as required. Managed air refueling assets and AOR fuel requirements. Coordinated airborne orders and scramble/divert alert aircraft when directed or delegated.

5.2.16.2. **Q-.** Committed weapons resources to counter the threat IAW theater ROE. Coordinated and/or established CAP and hand-over/recovery points as required. Managed air refueling assets and AOR fuel requirements. Coordinated airborne orders and scramble/divert alert aircraft when directed or delegated. Committed errors or omission that did not adversely affect mission accomplishment.

5.2.16.3. **U.** Failed to commit weapons resources to counter the threat IAW theater ROE. Failed to coordinate and/or establish CAP and hand-over/recovery points as required. Failed to manage air refueling assets and AOR fuel requirements. Failed to coordinate airborne orders and scramble/divert alert aircraft when directed or delegated. Committed errors or omissions that jeopardized mission accomplishment.

5.2.17. AREA 17—CREW LEADERSHIP (N/A)**5.2.18. AREA 18—AIRSPACE MANAGEMENT**

5.2.18.1. **Q.** Complied with airspace management requirements and restrictions IAW procedures. Initiated airspace requests, and verified airspace restrictions and limitations IAW applicable directives. Ensured all efforts were made to keep controlled aircraft inside the lateral and vertical confines of the airspace in a timely manner.

5.2.18.2. **Q-.** Complied with airspace management requirements and restrictions IAW procedures. Initiated airspace requests, and verified airspace restrictions and limitations IAW applicable directives. Ensured all efforts were made to keep controlled aircraft inside the lateral and vertical confines of the airspace in a timely manner. Committed errors or omissions that did not jeopardize mission accomplishment.

5.2.18.3. **U.** Failed to comply with airspace management requirements and restrictions IAW procedures. Failed to initiate airspace requests, and did not verify airspace restrictions and limitations IAW applicable directives. Failed to ensure all efforts were made to keep controlled aircraft inside the lateral and vertical confines of the airspace in a timely manner. Committed errors or omissions that could have jeopardized mission accomplishment.

5.2.19. AREA 19—ASSUMPTION OF CONTROL

5.2.19.1. **Q.** Located mission aircraft using reported position, IFF/SIF, PPLI, pilot maneuvering and/or external sources in a timely manner. Voiced “contact/negative contact” as appropriate. Passed or confirmed altimeter IAW local or theater procedures. Provided aircrew with a working frequency and/or net and TOD when applicable. Provided aircrew a situation update. Conducted IFF/SIF checks and advised aircrew of status. Conducted radar handoffs IAW procedures.

5.2.19.2. **Q-.** Located mission aircraft using reported position, IFF/SIF, PPLI, pilot maneuvering and/or external sources in a timely manner. Voiced “contact/negative contact” as appropriate. Passed or confirmed altimeter IAW local or theater procedures. Provided aircrew with a working frequency and/or net and TOD when applicable. Provided aircrew a situation update. Conducted IFF/SIF checks and advised aircrew of status. Conducted radar handoffs IAW procedures. Committed errors or omissions that did not jeopardize mission accomplishment.

5.2.19.3. **U.** Failed to locate aircraft using reported position, IFF/SIF, PPLI, pilot maneuvering and/or external sources in a timely manner. Failed to voice “contact/negative contact” as appropriate. Did not pass or confirm altimeter IAW local or theater procedures. Failed to provide aircrew with a working frequency and/or net and TOD when applicable. Did not provide aircrew a situation update. Failed to conduct IFF/SIF checks and advise aircrew of status. Failed to comply with procedures for conducting radar handoffs. Committed errors or omissions that could have jeopardized mission accomplishment.

5.2.20. AREA 20—COUNTERAIR MISSION

5.2.20.1. **Q.** Controlled aircraft using radar and/or IFF/SIF presentations consistent with continuum of control. Controlled operations that effectively protected assets and/or

accomplished the mission. Kept aircraft informed of all factor groups through "Picture" and threat calls. Provided/updated threat information (to include changes in targets and enemy order of battle) to aircraft under control. Identified all factor groups as able. Positioned aircraft to accomplish mission objectives IAW AFI 11-214 and AFTTP 3-1 General Planning consistent with briefed mission, rules of engagement, operations directives, and aircraft capabilities.

5.2.20.2. **Q-**. Controlled aircraft with errors or omissions that did not jeopardize mission accomplishment.

5.2.20.3. **U**. Controlled aircraft with errors or omissions that jeopardized mission accomplishment. Positioning was not consistent with continuum of control, rules of engagement, operations directives and/or mission objectives.

5.2.21. **AREA 21—COUNTERLAND MISSION**

5.2.21.1. **Q**. Controlled or provided positioning assistance to aircrews using radar and/or IFF/SIF presentations. As required/requested, provided vectoring assistance to route or target points to place aircraft in a position to accomplish mission IAW AFI 11-214 and AFTTP 3-1 General Planning consistent with briefed mission, rules of engagement, operations directives and aircraft capabilities. Provided/updated threat information (to include changes in targets and enemy order of battle) to aircraft under control. Provided minimum risk/safe passage and flight join up assistance as required/requested.

5.2.21.2. **Q-**. Controlled or provided positioning, vectoring, safe passage, or join up assistance with errors or omissions that did not jeopardize mission accomplishment.

5.2.21.3. **U**. Controlled or provided positioning, vectoring, safe passage, or join up assistance with errors or omissions that jeopardized mission accomplishment.

5.2.22. **AREA 22—AIR REFUELING MISSION**

5.2.22.1. **Q**. Controlled or provided positioning assistance to aircrews using radar and/or IFF/SIF presentations with a minimum of one close control rendezvous. Prioritized refueling activity and placed receivers and/or tankers in a position within air refueling parameters to accomplish mission objectives IAW AFI 11-214 and AFTTP 3-1 General Planning, and consistent with aircraft capabilities. Demonstrated receiver turn-on or point parallel tactics. Provided/updated threat information (to include changes in targets and enemy order of battle) to aircraft under control. Obtained and disseminated post-refueling offload information as required. Maintained SA.

5.2.22.2. **Q-**. Controlled or provided positioning assistance to aircrews with errors or omissions that did not jeopardize mission accomplishment.

5.2.22.3. **U**. Controlled or provided positioning assistance to aircrews with errors or omissions that jeopardized mission accomplishment. Final positioning was not within air refueling parameters IAW AFI 11-214.

5.3. The following areas are applicable to initial instructor upgrade/all recurring evaluations of instructors. Specific criteria are included in [Paragraph 2.4](#) of this instruction.

5.3.1. **AREA 23—INSTRUCTIONAL ABILITY**

5.3.2. **AREA 24—BRIEFINGS/CRITIQUE**

5.3.3. AREA 25—DEMONSTRATION AND PERFORMANCE

Chapter 6

AIR SURVEILLANCE OFFICER/TECHNICIAN EVALUATIONS

6.1. General. This chapter contains the criteria specifying the tasks required of a qualified Air Surveillance Officer/Air Surveillance Technician (ASO/T) IAW AFI 13-1STAN/EVAL Vol. 2. Evaluation requirements are outlined in [Table 6.1](#) for ASO/T and Instructor Air Surveillance Officer/Instructor Air Surveillance Technician (IASO/T).

6.1.1. Evaluation Objectives.

6.1.1.1. Qualification Evaluation. The examinee will be evaluated on his/her ability to accomplish required tasks safely and effectively, IAW technical orders, manuals, directives, and operating procedures applicable to the evaluated mission (T-3). Qualification evaluations will encompass all areas identified in [Table 6.1](#) (T-3). The examinee must demonstrate a degree of knowledge and proficiency essential for successful mission accomplishment and safety of flight (T-3). ASO/T qualification evaluations will be conducted, at a minimum, with a surveillance team and applicable technicians during a live/virtual/constructive mission (T-3). Tasks not observed and assessed during the normal course of evaluation will be evaluated separately while the examinee is on position (T-3). All efforts should be made to conduct the evaluation with a full operations crew. When possible, the evaluation will be conducted in a controlled radar and communications jamming environment; otherwise, radar and communications jamming may be simulated (T-3). At least one Tactical Digital Information Link (TDL) will be used (e.g., Link 11/11B or Link 16). Link events can occur on different days and/or with different agencies.

6.1.1.2. Mission Evaluation. The examinee will be evaluated on his/her ability to accomplish required tasks safely and effectively, IAW technical orders, manuals, directives, and operating procedures applicable to the evaluation areas table (T-3). Mission evaluations will encompass all required areas identified in [Table 6.1](#), for the mission profile performed (T-3). ASO/T mission evaluations will be conducted to the maximum extent possible with a full operations crew at a minimum, with a surveillance team during a live/virtual/constructive mission (T-3). The examinee must demonstrate a degree of knowledge and proficiency essential for successful mission accomplishment, profile execution, and safety of flight (T-3). Mission evaluations may be conducted in the live/virtual/constructive environment. When possible, MSN evaluations should replicate large force employment scenarios with supporting theater documents (SPINS, ROE, ATO/ACO, etc.), mission packages, and C2EW and HHQ integration. When possible, the evaluation shall include participation of at least one or more external TACS units and, when possible, conducted with a full operational crew (T-3). The evaluation will be conducted in a controlled radar and communications jamming environment; otherwise, radar and communications jamming may be simulated (T-3).

6.1.1.3. There will be instances where an examinee, during the mission, accomplishes all areas required for both the qualification and mission evaluations. In this case, the evaluation will be annotated as a QUAL/MSN evaluation (T-3). Acceptability of

required activity will be based on the evaluator's determination that all areas required for a mission and qualification evaluation have been met (T-3).

6.1.1.4. Completion of an ASO/T or IASO/T evaluation includes demonstration of competence as an ICT and ST, and qualifies the ASO to perform as an ICT and ST and the IASO/T to perform as an ICT and ST or IICT and IST. An EASO/T may accomplish evaluations on the ASO/T, ICT and ST positions.

6.1.1.5. ASTs that were previously qualified as IICTs and/or ISTs may continue to perform IICT and/or IST duties under the following conditions:

6.1.1.5.1. The AST must perform IICT and/or IST duties on the AST INIT QUAL evaluation and subsequent recurring AST evaluations (T-3).

6.1.1.5.2. AF Form 8 must include one of the following applicable restriction(s) that reads as follows (T-2):

6.1.1.5.2.1. RESTRICTION: Examinee may only instruct ICT crew members.

6.1.1.5.2.2. RESTRICTION: Examinee may only instruct ST crew members.

6.1.1.5.2.3. RESTRICTION: Examinee may only instruct ICT and ST crew members.

Table 6.1. ASO/T Evaluation Areas (T-3).

Evaluation Areas	QUAL	INSTR	MSN
General			
1. Mission Planning	R		R
2. Briefing/Debriefing	R		R
3. Equipment Setup and Checkout	R		
4. Console Operations and Displays	R		
5. Positional Changeover Briefing			R
6. Emergency Action Procedures and Equipment	R		
7. Authentication Procedures			R
8. COMSEC (CRITICAL)	R	R	R
9. Safety (CRITICAL)	R	R	R
10. Aircraft Emergency (CRITICAL)	R	R	R
Tactical Employment			
11. Coordination (CRITICAL)	R	R	R
12. Crew Discipline (CRITICAL)	R	R	R
13. Radio/Telephone (R/T) Procedures	R		R
14. Electronic Protection (EP) Operations			R
15. Anti-Radiation Missile (ARM) Procedures			R
16. Battle Management	R		R
17. Crew Leadership	R		R

18. Tactical Data Link (TDL) Operations	R		R
19. Air Picture Management	R		R
20. Database Initialization	R		R
21. Database/System Operations	R		R
22. Sensor Operations	R		R
Instructor only Areas (Only required for instructor qualified crew members) (Note 1)			
23. Instructional Ability	R	R	R
24. Briefings/Critique	R	R	R
25. Demonstration and Performance	R	R	R
R = Required evaluation area.			
Note 1: A grade of “U” in these areas results in an overall grade of 3 for the instructor portion of the evaluation.			

6.2. Evaluation Criteria. All areas in this section will be graded using the grading policy in AFI 13-1STAN/EVAL Vol. 2 and any criteria listed within the individual areas (T-2).

6.2.1. AREA 1—MISSION PLANNING

6.2.1.1. **Q.** Led surveillance team mission planning efforts. Determined mission tasking, ID criteria, AOR, data link requirements, communications requirements, and surveillance plans from mission planning documents. Obtained equipment status from Job Control. Determined surveillance manning requirements to meet mission tasking. Read and initialed all items in the OIF and/or read files.

6.2.1.2. **Q-.** Led surveillance team mission planning efforts. Determined mission tasking, ID criteria, AOR, data link requirements, communications requirements, and surveillance plans from mission planning documents. Obtained equipment status from Job Control. Determined surveillance manning requirements to meet mission tasking. Read and initialed all items in the OIF and/or read files. Committed errors or omissions that did not adversely affect mission accomplishment.

6.2.1.3. **U.** Failed to lead surveillance team mission planning efforts. Failed to determine mission tasking, ID criteria, AOR, data link requirements, communications requirements, and/or surveillance plans from mission planning documents. Did not obtain equipment status from Job Control. Failed to determine surveillance manning requirements to meet mission tasking. Failed to read and/or initial all items in the OIF and/or read files. Committed errors and omissions that jeopardized mission accomplishment.

6.2.2. AREA 2—BRIEFING/DEBRIEFING

6.2.2.1. **Q.** Attended and participated in all required briefings/debriefings and extracted/provided all necessary information. Performed briefings/debriefings in an organized, logical sequence IAW applicable directives. Planned all areas necessary to conduct tasked mission(s) and conducted aircrew briefings/debriefings IAW AFI 11-214 and other directives. Provided constructive feedback on team and individual performance. Provided specific instructional fixes to correct errors, and requested inputs

from others. Summarized mission execution, identified lessons learned, and compared mission results with crew objectives.

6.2.2.2. **Q-**. Provided constructive feedback on team and individual performance. Provided specific instructional fixes to correct errors, and requested inputs from others. Summarized mission execution, identified lessons learned, and compared mission results with crew objectives. Extracted/provided information or conducted briefings/debriefings and/or ensured the aircrew was thoroughly briefed on all aspects of the mission with errors or omissions that did not jeopardize mission accomplishment

6.2.2.3. **U**. Failed to attend and participate in all required briefings/debriefings. Conducted crew and aircrew briefings/debriefings with errors or omissions that jeopardized mission accomplishment. Failed to ensure the crew was thoroughly briefed on all aspects of the mission. Failed to establish and maintain team concept and environment for open communications and feedback. Committed errors or omissions that jeopardized mission accomplishment.

6.2.3. **AREA 3—EQUIPMENT SETUP/CHECKOUT**

6.2.3.1. **Q**. Ensured operational checks were completed on all equipment before mission. Ensured equipment outages were reported. Ensured the required radios were available, frequencies assigned, and cryptographic equipment loaded and configured. Configured the VCAS for operations as required and accessed as needed IAW checklists. Setup and operated the OCUWS to optimize situational awareness IAW checklists. Directed data base loads and approved changes to data base information.

6.2.3.2. **Q-**. Ensured operational checks were completed on all equipment before mission. Ensured equipment outages were reported. Ensured the required radios were available, frequencies assigned, and cryptographic equipment loaded and configured. Configured the VCAS for operations as required and accessed as needed IAW checklists. Setup and operated the OCUWS to optimize situational awareness IAW checklists. Directed data base loads and approved changes to data base information. Committed errors or omissions that did not adversely affect mission accomplishment.

6.2.3.3. **U**. Failed to ensure operational checks were completed on all equipment before mission. Failed to ensure equipment outages were reported. Failed to ensure the required radios were available, frequencies assigned, and cryptographic equipment loaded and configured. Failed to configure the VCAS for operations as required and accessed as needed IAW checklists. Failed to setup and operate the OCUWS to optimize situational awareness IAW checklists. Failed to direct data base loads and approved changes to data base information. Committed errors or omissions that could have jeopardized mission accomplishment.

6.2.4. **AREA 4—CONSOLE OPERATIONS AND DISPLAYS**

6.2.4.1. **Q**. Interpreted, initiated, and updated data for computer displays. Accomplished switch actions and responded to alarms and alerts. Performed surveillance-related console operations and switch actions to maintain an accurate air picture.

6.2.4.2. **Q-**. Interpreted, initiated, and updated data for computer displays. Accomplished switch actions and responded to alarms and alerts. Performed

surveillance-related console operations and switch actions to maintain an accurate air picture. Committed errors or omissions that did not adversely affect mission accomplishment.

6.2.4.3. **U.** Failed to interpret, initiate, and update data for computer displays. Failed to accomplish switch actions and respond to alarms and alerts. Did not perform surveillance-related console operations and switch actions to maintain an accurate air picture. Committed errors or omissions that jeopardized mission accomplishment.

6.2.5. AREA 5—POSITIONAL CHANGEOVER BRIEFING

6.2.5.1. **Q.** Briefed the relieving crew member on the current operational situation before departing position. Conducted positional changeover briefing IAW checklist.

6.2.5.2. **Q-.** Briefed the relieving crew member on the current operational situation before departing position. Conducted positional changeover briefing IAW checklist. Committed errors or omissions that did not adversely affect mission accomplishment.

6.2.5.3. **U.** Failed to brief the relieving crew member on the current operational situation before departing position. Failed to follow checklist when conducted positional changeover briefing. Committed errors or omissions that jeopardized mission accomplishment.

6.2.6. AREA 6—EMERGENCY ACTION PROCEDURES AND EQUIPMENT

6.2.6.1. **Q.** Demonstrated thorough knowledge of emergency action procedures/equipment. Properly diagnosed emergency. Thoroughly familiar with additional emergency duties. Coordinated with other crew members without delay.

6.2.6.2. **Q-.** Committed errors, omissions or delays in emergency action procedures or had minor errors in knowledge of emergency procedures/equipment that did not result in an unsafe situation or jeopardize mission accomplishment.

6.2.6.3. **U.** Unsatisfactory knowledge of emergency action procedures/equipment. Misunderstood additional emergency duties. Improperly or ineffectively coordinated with other crew members causing errors, omissions, delays or confusion that resulted in an unsafe situation and/ or jeopardized mission accomplishment.

6.2.7. AREA 7—AUTHENTICATION PROCEDURES

6.2.7.1. **Q.** Authenticated voice transmission within time limits specified on authenticators.

6.2.7.2. **Q-.** Authenticated voice transmission within time limits specified on authenticators. Committed errors or omissions that did not jeopardize mission accomplishment.

6.2.7.3. **U.** Committed errors or omissions that jeopardized mission accomplishment.

6.2.8. AREA 8—COMMUNICATIONS SECURITY (COMSEC) (CRITICAL)

6.2.8.1. **Q.** Used and controlled COMSEC IAW established procedures.

6.2.8.2. **U.** Failed to use and control COMSEC IAW established procedures.

6.2.9. AREA 9—SAFETY (CRITICAL)

6.2.9.1. **Q.** Aware of and complied with all safety factors required for safe operation and mission accomplishment. Ensured appropriate safety checks were accomplished as needed. Ensured adequate coordination to prevent unsafe acts. Located safety hazards and explained proper use of safety equipment. Located electrical, fire, and radiation safety hazards in the OM. Located and demonstrated the proper use of fire extinguishers. Located and explained the use of the OM “Master Off” switch.

6.2.9.2. **U.** Was not aware of or did not comply with all safety factors required for safe operation or mission accomplishment. Failed to ensure appropriate safety checks were accomplished when needed. Failed to locate safety hazards and/or explain proper use of safety equipment. Failed to locate electrical, fire, and radiation safety hazards in the OM. Failed to locate and/or demonstrate proper use of fire extinguishers. Failed to locate and/or explain the use of the OM “Master Off” switch. Committed errors or omissions that resulted in an unsafe act and/or jeopardized mission accomplishment.

6.2.10. AREA 10—AIRCRAFT EMERGENCIES (CRITICAL)

6.2.10.1. **Q.** Recognized the existence of an aircraft emergency. Assisted controlled aircraft experiencing an emergency in a timely manner. Coordinated responses IAW an emergency checklist. Entered the appropriate emergency point on the scope. Notified crew members of the aircraft emergency.

6.2.10.2. **U.** Failed to recognize an aircraft emergency. Failed to assist controlled aircraft experiencing an emergency. Failed to respond in a timely manner. Did not follow the aircraft emergency checklist. Failed to enter an appropriate emergency point on the scope. Did not notify crew member of aircraft emergency. Committed errors or omissions that led to the loss of the aircraft and/or aircrew, or jeopardized mission accomplishment.

6.2.11. AREA 11—COORDINATION (CRITICAL)

6.2.11.1. **Q.** Coordinated with the mission crew to ensure equipment and assets were available and used to accomplish the assigned mission. Ensured coordination and information flow within the section and cross-sections as required.

6.2.11.2. **U.** Failed to coordinate with the mission crew to ensure equipment and assets were available and used to accomplish the assigned mission. Failed to ensure coordination and information flow within the section and cross-sections as required. Committed errors or omissions that jeopardized mission accomplishment.

6.2.12. AREA 12—CREW DISCIPLINE (CRITICAL)

6.2.12.1. **Q.** Demonstrated strict professional crew discipline throughout all phases of the mission. Executed the assigned mission in a timely, efficient manner.

6.2.12.2. **U.** Failed to exhibit strict crew discipline. Violated or ignored rules or instructions. Decision or lack thereof resulted in failure to accomplish the assigned mission. Demonstrated poor judgment to the extent, that safety or mission accomplishment was compromised.

6.2.13. AREA 13—RADIO/TELEPHONE (R/T) PROCEDURES

6.2.13.1. **Q.** Employed R/T procedures IAW AFI 11-214 and AFTTP 3-1. Acknowledged all communications.

6.2.13.2. **Q-.** Employed R/T procedures with errors or omissions that did not jeopardize mission accomplishment. Performance included errors, omissions, or delays that did not jeopardize mission accomplishment or safety.

6.2.13.3. **U.** Failed to employ R/T procedures IAW AFI 11-214 and AFTTP 3-1. Did not acknowledge all communications.

6.2.14. AREA 14—ELECTRONIC PROTECTION (EP) OPERATIONS

6.2.14.1. **Q.** Coordinated with the Electronic Protection Technician (EPT) to direct EMCON and EP activities. Ensured the crew and external agencies were notified of EMI and/or EA experienced.

6.2.14.2. **Q-.** Coordinated with the EPT to direct EP activities. Ensured the crew and external agencies were notified of EMI and/or EA experienced. Committed errors or omissions that did not adversely affect mission accomplishment.

6.2.14.3. **U.** Failed to coordinate with the EPT to direct EMCON and/or EP activities. Failed to ensure the crew and external agencies were notified of EMI and/or EA experience. Committed errors or omissions that jeopardized mission accomplishment.

6.2.15. AREA 15—ANTI-RADIATION MISSILE (ARM) PROCEDURES

6.2.15.1. **Q.** Supervised surveillance team responses to an ARM attack. Recognized or received ARM attack profile warning and notified the crew. Complied with ARM attack checklist.

6.2.15.2. **Q-.** Supervised surveillance team responses to an ARM attack. Recognized or received ARM attack profile warning and notified the crew. Complied with ARM attack checklist. Committed errors or omissions that did not adversely affect mission accomplishment.

6.2.15.3. **U.** Failed to supervise surveillance team responses to an ARM attack. Failed to recognize ARM attack profile and/or receive ARM profile warning. Failed to notify the crew. Failed to comply with ARM attack checklist. Committed errors or omissions that jeopardized mission accomplishment.

6.2.16. AREA 16—BATTLE MANAGEMENT

6.2.16.1. **Q.** Executed the assigned mission in a timely, efficient manner with a full operations crew. Provided guidance to the surveillance section on employment of resources, JAOP, OPLAN, ATO/ACO, OPTASK LINK, SPINS and other mission specific documents, procedures and taskings. Assessed ROE and ID procedures based on changing alert conditions. When delegated, authorized declaration of targets IAW theater ID matrix and ROE. Monitored detection, tracking and ID of air traffic within the assigned area. When delegated, supervised the declaration of targets as hostile based on hostile intent/ hostile act criteria and level of authority. Supervised EP efforts to counter EA. Disseminated air defense warnings as required. Monitored and supported PR/CSAR efforts as tasked.

6.2.16.2. **Q-** Executed the assigned mission in a timely, efficient manner with a full operations crew. Provided guidance to the surveillance section on employment of resources, JAOP, OPLAN, ATO/ACO, OPTASK LINK, SPINS and other mission specific documents, procedures and taskings. Assessed ROE and ID procedures based on changing alert conditions. When delegated, authorized declaration of targets IAW theater ID matrix and ROE. Monitored detection, tracking and ID of air traffic within the assigned area. When delegated, supervised the declaration of targets as hostile based on hostile intent/ hostile act criteria and level of authority. Supervised EP efforts to counter EA. Disseminated air defense warnings as required. Monitored and supported PR/CSAR efforts as tasked. Committed errors or omissions that did not adversely affect mission accomplishment.

6.2.16.3. **U.** Failed to execute the assigned mission in a timely, efficient manner with a full operations crew. Failed to provide guidance to the surveillance section on employment of resources, JAOP, OPLAN, ATO/ACO, OPTASK LINK, SPINS and other mission specific documents, procedures and taskings. Failed to assess ROE and ID procedures based on changing alert conditions. When delegated, failed to authorize declaration of targets IAW theater ID matrix and ROE. Did not monitor detection, tracking and ID of air traffic within the assigned area. When delegated, failed to supervise the declaration of targets as hostile based on hostile intent/ hostile act criteria and level of authority. Did not supervise EP efforts to counter EA. Failed to disseminate air defense warnings as required. Did not monitor and/or support PR/CSAR efforts as tasked. Committed errors or omissions that jeopardized mission accomplishment.

6.2.17. **AREA 17—CREW LEADERSHIP**

6.2.17.1. **Q.** Supervised tracking and identification of all air traffic within the assigned area. Ensured identification procedures were properly executed in a timely manner. Ensured all tracks were properly identified. Ensured flight plan information was disseminated to adjacent/subordinate units. Approved all cancel track actions. Ensured coordination of ID activities with adjacent air traffic control facilities. Directed surveillance configuration at subordinate units. Ensured data link track filters were built as required. Supervised surveillance section functions to ensure accomplishment of mission objectives. Prioritized tasks and available resources to manage workload of the surveillance team. Ensured available assets were used to accomplish assigned mission. Ensured coordination and information flow within operations as required. Coordinated and directed track production tasks for assigned area IAW ATO, ACO, SPINS. Ensured the surveillance section was aware of airspace control measures (ACM) involved in the identification process (e.g., enemy airspaces [point of origin criteria], minimum risk routes).

6.2.17.2. **Q-** Supervised tracking and identification of all air traffic within the assigned area. Ensured identification procedures were properly executed in a timely manner. Ensured all tracks were properly identified. Ensured flight plan information was disseminated to adjacent/subordinate units. Approved all cancel track actions. Ensured coordination of ID activities with adjacent air traffic control facilities. Directed surveillance configuration at subordinate units. Ensured data link track filters were built as required. Supervised surveillance section functions to ensure accomplishment of mission objectives. Prioritized tasks and available resources to manage workload of the

surveillance team. Ensured available assets were used to accomplish assigned mission. Ensured coordination and information flow within operations as required. Coordinated and directed track production tasks for assigned area IAW ATO, ACO, SPINS. Ensured the surveillance section was aware of ACMs involved in the identification process (e.g., enemy airspaces [point of origin criteria], minimum risk routes). Committed errors or omissions that did not jeopardize mission accomplishment.

6.2.17.3. **U.** Failed to supervise tracking and/or identification of all air traffic within the assigned area. Failed to ensure identification procedures were properly executed in a timely manner. Failed to ensure that all tracks were properly identified. Failed to ensure flight plan information was disseminated to adjacent/subordinate units. Failed to approve all cancel track actions. Failed to ensure coordination of ID activities with adjacent air traffic control units. Failed to ensure data link track filters were built as required. Failed to supervise surveillance section functions to ensure accomplishment of mission objectives. Failed to prioritize tasks and available resources to manage workload of the surveillance team. Failed to ensure available assets were used to accomplish assigned mission. Failed to ensure coordination and information flow within operations as required. Failed to coordinate and direct track production tasks for assigned area IAW ATO, ACO, SPINS. Failed to ensure the surveillance section was aware of ACMs involved in the identification process (e.g., enemy airspaces [point of origin criteria], minimum risk routes). Committed errors or omissions that jeopardized mission accomplishment.

6.2.18. **AREA 18—TACTICAL DATA LINK (TDL) OPERATIONS**

6.2.18.1. **Q.** Performed initial data link equipment checkout. Conducted data link operations as directed. Used switch actions to initiate, build and maintain a Link 11A. Reported Link 11A problems IAW established procedures. Used switch actions to initiate, build and maintain a Link 11B. Reported Link 11B problems IAW established procedures. Used switch actions to initiate, build and maintain Link-1 and Link 16 links. Reported Link-1 and/or Link 16 problems IAW established procedures. Used the DCN to coordinate with other data link agencies. Coordinated the designation and use of frequencies and/or channels assigned to interface data links and voice coordination networks. Implemented changes in interface configurations as directed. Built and implemented data link filters as required. Recommended changes in data link configurations to the ASO. Interpreted and responded to data link messages in a timely manner.

6.2.18.2. **Q-.** Performed initial data link equipment checkout. Conducted data link operations as directed. Used switch actions to initiate, build and maintain a Link 11A. Reported Link 11A problems IAW established procedures. Used switch actions to initiate, build and maintain a Link 11B. Reported Link 11B problems IAW established procedures. Used switch actions to initiate, build and maintain Link-1 and Link 16 links. Reported Link-1 and/or Link 16 problems IAW established procedures. Used the DCN to coordinate with other data link agencies. Coordinated the designation and use of frequencies and/or channels assigned to interface data links and voice coordination networks. Implemented changes in interface configurations as directed. Built and implemented data link filters as required. Recommended changes in data link

configurations to the ASO. Interpreted and responded to data link messages in a timely manner. Committed errors or omissions that did not jeopardize mission accomplishment.

6.2.18.3. U. Failed to perform initial data link equipment checkout. Failed conduct datalink operations as directed. Failed to use switch actions to initiate, build and maintain a Link 11A. Failed to report Link 11A problems IAW established procedures. Did not use switch actions to initiate, build and maintain a Link 11B. Failed to report Link 11B problems IAW established procedures. Failed to use switch actions to initiate, build and maintain Link-1 and Link 16 links. Failed to report Link-1 and/or Link 16 problems IAW established procedures. Failed to use DCN to coordinate with other data link agencies. Did not coordinate the designation and use of frequencies and/or channels assigned to interface datalinks and voice coordination networks. Did not implement changes in interface configurations as directed. Failed to build and implement data link filters as required. Did not recommend changes in data link configurations to the ASO. Failed to interpret and respond to data link messages in a timely manner. Committed errors or omissions that jeopardized mission accomplishment.

6.2.19. AREA 19—AIR PICTURE MANAGEMENT

6.2.19.1. Q. Divided the CRC operational area into sub-areas and assigned appropriate STs to conduct surveillance within those areas. Ensured timely and accurate collection, display, and dissemination of air surveillance data to higher, lateral, and subordinate units as appropriate. Ensured implementation of the ACO while providing safe passage advisories. Ensured active ACMs were properly displayed and coordinated the activation and deactivation of ACMs with the SD and ASO.

6.2.19.2. Q-. Divided the CRC operational area into sub-areas and assigned appropriate STs to conduct surveillance within those areas. Ensured timely and accurate collection, display, and dissemination of air surveillance data to higher, lateral, and subordinate units as appropriate. Ensured implementation of the ACO while providing safe passage advisories. Ensured active ACMs were properly displayed and coordinated their activation and deactivation with the SD and ASO. Committed errors or omissions that did not adversely affect mission accomplishment.

6.2.19.3. U. Failed to divide the CRC operational area into sub-areas and assign appropriate STs to conduct surveillance within those areas. Failed to ensure timely and/or accurate collection, display, and/or dissemination of air surveillance data to higher, lateral, and/or subordinate units as appropriate. Failed to ensure the implementation of the ACO while providing safe passage advisories. Failed to ensure active ACMs were properly displayed and did not coordinate their activation and deactivation with the SD and ASO. Committed errors or omissions that jeopardized mission accomplishment.

6.2.20. AREA 20—DATA BASE INITIALIZATION

6.2.20.1. Q. Loaded data base as directed. Performed hard drive directory and file management functions. Copied and/or compared a hard drive as required. Selected, copied, deleted, reviewed, renamed, created and/or printed hard drive directories as necessary. Set directory defaults and file attributes. Ensured system configuration met operational needs.

6.2.20.2. **Q-**. Loaded data base as directed. Performed hard drive directory and file management functions. Copied and/or compared a hard drive as required. Selected, copied, deleted, reviewed, renamed, created and/or printed hard drive directories as necessary. Set directory defaults and file attributes. Ensured system configuration met operational needs. Committed errors or omissions that did not adversely affect mission accomplishment.

6.2.20.3. **U**. Failed to load data base as directed. Failed to perform hard drive directory and file management functions. Failed to copy and/or compare a hard drive as required. Failed to select, copy, delete, review, rename, create and/or print hard drive directories as necessary. Failed to set directory defaults and file attributes. Failed to ensure system configuration met operational needs. Committed errors or omissions that jeopardized mission accomplishment.

6.2.21. **AREA 21—DATA BASE/SYSTEM OPERATIONS**

6.2.21.1. **Q**. Operated data base. Ensured data base ATO information was correct and current. Performed and/or coordinated all system server unit (SSU) read and write activities. Managed the data base and system configuration to meet mission needs. Modified data link data base information as directed. Performed and coordinated system resets and/or Initiate Program Loads (IPL). Recommended system configuration changes to the crew as appropriate. Configured system and data base as required. Coordinated on computer problems and workarounds as required. Explained the purpose of performance monitor and test (PM&T) functions. Ensured resets and/or IPLs were performed as directed. Responded to alarms and alerts in a timely manner.

6.2.21.2. **Q-**. Operated data base. Ensured data base ATO information was correct and current. Performed and/or coordinated all SSU read and write activities. Managed the data base and system configuration to meet mission needs. Modified data link data base information as directed. Performed and coordinated system resets and/or IPLs. Recommended system configuration changes to the crew as appropriate. Configured system and data base as required. Coordinated on computer problems and workarounds as required. Explained the purpose of PM&T functions. Ensured resets and/or IPLs were performed as directed. Responded to alarms and alerts in a timely manner. Committed errors or omissions that did not adversely affect mission accomplishment.

6.2.21.3. **U**. Failed to operate the data base. Failed to ensure data base ATO information was correct and current. Failed to perform and coordinate all SSU read and/or write activities. Failed to manage the data base and system configuration to meet mission needs. Did not modify data link data base information as directed. Failed to perform and/or coordinate system resets and/or IPLs. Did not recommend system configuration changes to the crew as appropriate. Failed to configure system and data base as required. Did not coordinated on computer problems and workarounds as required. Failed to explain the purpose of PM&T functions. Failed to ensure resets and/or IPLs were performed as directed. Did not respond to alarms and alerts in a timely manner. Committed errors or omissions that jeopardized mission accomplishment.

6.2.22. **AREA 22—SENSOR OPERATIONS**

6.2.22.1. **Q.** Ensured proper sensor/site registration procedures were implemented as required. Directed coordination to resolve registration problems with interfacing units. Ensured sensors were configured and optimized to accomplish the mission. Recognized and analyzed degraded sensor performance. Ensured corrective measures were taken to improve degraded sensor performance. Monitored corrective actions taken to improve degraded sensors. Ensured system radar correlation check was completed IAW the Periodic Radar Evaluation Program (PREP) worksheet. Ensured remote radar data was correlated and data was received on all tracks within the assigned area.

6.2.22.2. **Q-.** Ensured proper sensor/site registration procedures were implemented as required. Directed coordination to resolve registration problems with interfacing units. Ensured sensors were configured and optimized to accomplish the mission. Recognized and analyzed degraded sensor performance. Ensured corrective measures were taken to improve degraded sensor performance. Monitored corrective actions taken to improve degraded sensors. Ensured system radar correlation check was completed IAW the PREP worksheet. Ensured remote radar data was correlated and data was received on all tracks within the assigned area. Committed errors or omissions that did not adversely affect mission accomplishment.

6.2.22.3. **U.** Failed to ensure proper sensor/site registration procedures were implemented as required. Failed to direct coordination to resolve registration problems with interfacing units. Failed to ensure sensors were configured and/or optimized to accomplish the mission. Failed to recognize and/or analyze degraded sensor performance. Failed to ensure corrective measures were taken to improve degraded sensor performance. Failed to monitor corrective actions taken to improve degraded sensors. Failed to ensure system radar correlation check was completed IAW the PREP worksheet. Failed to ensure remote radar data was correlated and data was received on all tracks within the assigned area. Committed errors or omissions that jeopardized mission accomplishment.

6.3. The following areas are applicable to initial instructor upgrade/all subsequent periodic evaluations of instructors. Specific criteria are included in [Paragraph 2.4](#) of this instruction.

6.3.1. **AREA 23—INSTRUCTIONAL ABILITY**

6.3.2. **AREA 24—BRIEFINGS/CRITIQUE**

6.3.3. **AREA 25—DEMONSTRATION AND PERFORMANCE**

Chapter 7

ELECTRONIC PROTECTION TECHNICIAN EVALUATIONS

7.1. General. This chapter contains the criteria specifying the tasks required of a qualified Electronic Protection Technician (EPT) IAW AFI 13-1STAN/EVAL Vol. 2. Evaluation requirements are outlined in [Table 7.1](#) for EPT and Instructor Electronic Protection Technician (IEPT).

7.1.1. Evaluation Objectives.

7.1.1.1. Qualification Evaluation. The examinee will be evaluated on his/her ability to accomplish required tasks safely and effectively, IAW technical orders, manuals, directives, and operating procedures applicable to the evaluated mission (T-3). Qualification evaluations will encompass all areas identified in [Table 7.1](#) (T-3). The examinee must demonstrate a degree of knowledge and proficiency essential for successful mission accomplishment and safety of flight (T-3). EPT performance evaluations will be conducted in a live environment (T-3). Tasks not observed and assessed during the normal course of the evaluation will be evaluated separately while the examinee is on position (T-3). The deployment of the EPT with the deployed radar (DR) can be simulated. When possible the evaluation will be conducted in a controlled radar and communication jamming environment, otherwise electronic and communication jamming should be simulated (T-3).

7.1.1.2. Mission Evaluation. EPTs are waived from the mission evaluation and will become CMR upon completion of IQT.

Table 7.1. EPT Evaluation Areas (T-3).

Evaluation Areas	QUAL	INSTR	MSN
General			
1. Mission Planning	R		
2. Briefing/Debriefing	R		
3. Equipment Setup and Checkout	R		
4. Console Operations and Displays	R		
5. Positional Changeover Briefing	R		
6. Emergency Action Procedures and Equipment	R		
7. Authentication Procedures	R		
8. COMSEC (CRITICAL)	R	R	
9. Safety (CRITICAL)	R	R	
10. Aircraft Emergency (CRITICAL)	R	R	
Tactical Employment			
11. Coordination (CRITICAL)	R	R	
12. Crew Discipline (CRITICAL)	R	R	
13. Radio/Telephone (R/T) Procedures	R		

14. Electronic Protection Operations	R		
15. Anti-Radiation Missile (ARM) Procedures	R		
16. Battle Management (N/A)			
17. Crew Leadership (N/A)			
18. Tactical Data Link (TDL) Operations (N/A)			
19. Weather Inputs	R		
20. System Operations	R		
21. Forward Tell Operations	R		
22. Documentation	R		
Instructor only Areas (Only required for instructor qualified crew members) (Note 1)			
23. Instructional Ability	R	R	
24. Briefings/Critique	R	R	
25. Demonstration and Performance	R	R	
R = Required evaluation area.			
Note 1: A grade of “U” in these areas results in an overall grade of 3 for the instructor portion of the evaluation.			

7.2. Evaluation Criteria. All areas in this section will be graded using the grading policy in AFI 13-1STAN/EVAL Vol. 2 and any criteria listed within the individual areas (T-2).

7.2.1. AREA 1—MISSION PLANNING

7.2.1.1. **Q.** Extracted information from mission planning documents needed to execute the tasked mission IAW AFTTP 3-1 volumes and operations directives as directed by the ASO/T. Developed an effective EMCON plan to counter theater EA threat. Read and initialed all items in the OIF and/or read files.

7.2.1.2. **Q-.** Extracted information from mission planning documents needed to execute the tasked mission IAW AFTTP 3-1 volumes and applicable operations directives as directed by the ASO/T. Developed an effective EMCON plan to counter theater EA threat. Read and initialed all items in the OIF and/or read files. Committed errors or omissions that did not adversely affect mission accomplishment.

7.2.1.3. **U.** Failed to extract information from mission planning documents needed to execute the tasked mission IAW AFTTP 3-1 volumes and applicable operations directives as directed by the ASO/T. Did not develop an effective EMCON plan to counter theater EA threat. Failed to read and/or initial all items in the OIF and/or read files. Committed errors or omissions that could have jeopardized mission accomplishment.

7.2.2. AREA 2—BRIEFING/DEBRIEFING

7.2.2.1. **Q.** Attended all required briefings/debriefings and extracted/provided all necessary information (i.e. weather, EMCON). Performed briefings/debriefings in an organized, logical sequence IAW applicable directives. Planned all areas necessary to conduct tasked mission(s) and conducted aircrew briefings/debriefings (if applicable) IAW AFI 11-214 and other directives. Provided constructive feedback on team and

individual performance. Provided specific instructional fixes to correct errors, and requested inputs from others. Summarized mission execution, identified lessons learned, and compared mission results with crew objectives.

7.2.2.2. **Q-**. Attended all required briefings/debriefings and extracted/provided all necessary information (i.e. weather, EMCON). Performed briefings/debriefings in an organized, logical sequence IAW applicable directives. Planned all areas necessary to conduct tasked mission(s) and conducted aircrew briefings/debriefings (if applicable) IAW AFI 11-214 and other directives. Provided constructive feedback on team and individual performance. Provided specific instructional fixes to correct errors, and requested inputs from others. Summarized mission execution, identified lessons learned, and compared mission results with crew objectives. Extracted/provided information or conducted briefings/debriefings and/or ensured the aircrew (if applicable) was thoroughly briefed on all aspects of the mission with errors or omissions that did not jeopardize mission accomplishment.

7.2.2.3. **U**. Failed to attend and participate in all required briefings/debriefings. Conducted crew and aircrew briefings/debriefings with errors or omissions that jeopardized mission accomplishment. Failed to ensure the crew was thoroughly briefed on all aspects of the mission. Failed to establish and maintain team concept and environment for open communications and feedback. Committed errors or omissions that jeopardized mission accomplishment.

7.2.3. AREA 3—EQUIPMENT SETUP/CHECKOUT

7.2.3.1. **Q**. Setup and operated the AN/UPA-59A and AN/UPX-27 for operations. Interrogated, read, and interpreted Mode 1, 2, 3A, and C readouts. Loaded Mode 4 IAW unit checklist. Setup and operated AN/TPS-75 radios, Voice Communication Access Unit (VCAU), and landlines IAW unit checklists. Ensured AN/TPS-75 radar van radios were powered. Ensured mission frequencies were set in radios. Ensured cryptographic radios were configured as required.

7.2.3.2. **Q-**. Setup and operated the AN/UPA-59A and AN/UPX-27 for operations. Interrogated, read, and interpreted Mode 1, 2, 3A, and C readouts. Loaded Mode 4 IAW unit checklist. Setup and operated AN/TPS-75 radios, VCAU, and landlines IAW unit checklists. Ensured AN/TPS-75 radar van radios were powered. Ensured mission frequencies were set in radios. Ensured cryptographic radios were configured as required. Committed errors or omissions that did not jeopardize mission accomplishment.

7.2.3.3. **U**. Failed to setup and operate the AN/UPA-59A and AN/UPX-27 for operations. Failed to interrogate, read, and interpret Mode 1, 2, 3A, and C readouts. Failed to load Mode 4 IAW unit checklist. Failed to setup and operate AN/TPS-75 radios, VCAU, and landlines IAW unit checklists. Failed to ensure AN/TPS-75 radar van radios were powered. Failed to ensure mission frequencies were set in radios. Failed to ensure cryptographic radios were configured as required. Committed errors or omissions that jeopardized mission accomplishment.

7.2.4. AREA 4—CONSOLE OPERATIONS AND DISPLAYS

7.2.4.1. **Q.** Setup and operated the Situation Display Console (SDC) IAW unit checklists. Located and explained SDC controls and indicators. Customized SDC presentation for optimum situational awareness. Interpreted the message and data block on the SDC. Set up and operated AN/TPS-75 radios, VCAU, and landlines IAW unit checklists. Ensured AN/TPS-75 radar van radios were powered. Ensured mission frequencies were set in radios. Ensured cryptographic radios were configured as required.

7.2.4.2. **Q-.** Setup and operated the SDC IAW unit checklists. Located and explained SDC controls and indicators. Customized SDC presentation for optimum situational awareness. Interpreted the message and data block on the SDC. Set up and operated AN/TPS-75 radios, VCAU, and landlines IAW unit checklists. Ensured AN/TPS-75 radar van radios were powered. Ensured mission frequencies were set in radios. Ensured cryptographic radios were configured as required. Committed errors or omissions that did not adversely affect mission accomplishment.

7.2.4.3. **U.** Failed to setup and operate the SDC IAW unit checklists. Failed to comply with unit criteria. Could not locate and explain SDC controls or indicators. Failed to customize the SDC for optimum situational awareness. Failed to interpret the message and data block on the SDC. Failed to set up and operate AN/TPS-75 radios, VCAU, and landlines IAW unit checklists. Did not ensure AN/TPS-75 radar van radios were powered. Did not ensure mission frequencies were set in radios. Failed to ensure cryptographic radios were configured as required. Committed errors or omissions that jeopardized mission accomplishment.

7.2.5. AREA 5—POSITIONAL CHANGEOVER BRIEFING

7.2.5.1. **Q.** Briefed the relieving EPT on the current operational situation before departing position. Conducted positional changeover briefing IAW checklist.

7.2.5.2. **Q-.** Briefed the relieving EPT on the current operational situation before departing position. Conducted positional changeover briefing IAW checklist. Committed errors or omissions that did not adversely affect mission accomplishment.

7.2.5.3. **U.** Failed to brief the relieving EPT on the current operational situation before departing position. Failed to follow checklist when conducting positional changeover briefing. Committed errors or omissions that jeopardized mission accomplishment.

7.2.6. AREA 6—EMERGENCY ACTION PROCEDURES AND EQUIPMENT

7.2.6.1. **Q.** Demonstrated thorough knowledge of emergency action procedures/equipment. Properly diagnosed emergency. Thoroughly familiar with additional emergency duties. Coordinated with other crew members without delay.

7.2.6.2. **Q-.** Committed errors, omissions, or delays in emergency action procedures or had minor errors in knowledge of emergency procedures/equipment that did not result in an unsafe situation or jeopardize mission accomplishment.

7.2.6.3. **U.** Unsatisfactory knowledge of emergency action procedures/equipment. Misunderstood additional emergency duties. Improperly or ineffectively coordinated with other crew members causing errors, omissions, delays or confusion that resulted in an unsafe situation and/ or jeopardized mission accomplishment.

7.2.7. AREA 7—AUTHENTICATION PROCEDURES

7.2.7.1. **Q.** Authenticated voice transmission within time limits specified on authenticators.

7.2.7.2. **Q-.** Authenticated voice transmission within time limits specified on authenticators. Committed errors or omissions that did not jeopardize mission accomplishment.

7.2.7.3. **U.** Committed errors or omissions that jeopardized mission accomplishment.

7.2.8. AREA 3—COMMUNICATIONS SECURITY (COMSEC) (CRITICAL)

7.2.8.1. **Q.** Used and controlled COMSEC IAW established procedures.

7.2.8.2. **U.** Failed to use and control COMSEC IAW established procedures.

7.2.9. AREA 9—SAFETY (CRITICAL)

7.2.9.1. **Q.** Aware of and complied with all safety factors required for safe operation and mission accomplishment. Ensured adequate coordination to prevent unsafe acts. Located safety hazards and explained proper use of safety equipment. Located electrical, fire, and radiation safety hazards in the AN/TPS-75 shelter. Located and explained proper use of fire extinguishers. Located and explained the use of the AN/TPS-75 radar van “Main Power Safety Interrupt” Switch.

7.2.9.2. **U.** Was not aware of or did not comply with all safety factors required for safe operation or mission accomplishment. Failed to locate safety hazards and/or explain proper use of safety equipment. Failed to locate safety hazards and explain proper use of safety equipment. Failed to locate electrical, fire, and safety hazards in the AN/TPS-75 shelter. Failed to locate and/or explain proper use of fire extinguishers. Failed to locate and explain the use of the AN/TPS-75 radar van “Main Power Safety Interrupt” Switch. Committed errors or omissions that resulted in an unsafe act and/or jeopardized mission accomplishment.

7.2.10. AREA 10—AIRCRAFT EMERGENCY (CRITICAL)

7.2.10.1. **Q.** Recognized the existence of an aircraft emergency. Provided timely assistance for aircraft experiencing emergency situations IAW aircraft emergency checklist. Recognized emergency symbols and IFF displays. Notified crew members of the aircraft emergency.

7.2.10.2. **U.** Failed to recognize an aircraft emergency. Failed to provide timely assistance to aircraft experiencing emergency situations. Failed to comply with the emergency checklist when responding to aircraft emergencies. Failed to recognize emergency symbols and IFF displays. Failed to notify crew members of the aircraft emergency. Committed errors or omissions that endangered the unit and/or jeopardized mission accomplishment.

7.2.11. AREA 11—COORDINATION (CRITICAL)

7.2.11.1. **Q.** Coordinated with the mission crew to ensure equipment and assets were available and used to accomplish the assigned mission. Ensured coordination and

information flow within the section, across the sections, and with external agencies as required.

7.2.11.2. **U.** Failed to coordinate with the mission crew to ensure equipment and assets were available and used to accomplish the assigned mission. Failed to ensure coordination and information flow within the section, across the sections, and with external agencies as required. Committed errors or omissions that jeopardized mission accomplishment.

7.2.12. AREA 12—CREW DISCIPLINE (CRITICAL)

7.2.12.1. **Q.** Demonstrated strict professional crew discipline throughout all phases of the mission. Executed the assigned mission in a timely, efficient manner.

7.2.12.2. **U.** Failed to exhibit strict crew discipline. Violated or ignored rules or instructions. Decision or lack thereof resulted in failure to accomplish the assigned mission. Demonstrated poor judgment to the extent, that safety or mission accomplishment was compromised.

7.2.13. AREA 13—RADIO/TELEPHONE (R/T) PROCEDURES

7.2.13.1. **Q.** Employed R/T procedures IAW AFI 11-214 and AFTTP 3-1. Acknowledged all communications.

7.2.13.2. **Q-.** Employed R/T procedures with errors or omissions that did not jeopardize mission accomplishment. Performance included errors, omissions, or delays that did not jeopardize mission accomplishment or safety.

7.2.13.3. **U.** Failed to employ R/T procedures IAW AFI 11-214 and AFTTP 3-1. Did not acknowledge all communications.

7.2.14. AREA 14—ELECTRONIC PROTECTION OPERATIONS

7.2.14.1. **Q.** Promptly informed the ASO/T when EA was experienced. Used AN/TPS-75 system displays, EP functions, and switch actions to maintain an optimal air picture and to control radar emissions. Recommended EP and EMCON measures and levels to the crew as appropriate. Selected appropriate video(s) to neutralize the effects of anomalous propagation, thunderstorms, and unusual weather conditions. Selected appropriate video(s) to detect jammers and associated jammer track(s). When necessary, coordinated with other command and control (C2) units and agencies to identify and locate jammers or other sources of interference.

7.2.14.2. **Q-.** Promptly informed the ASO/T when EA was experienced. Used AN/TPS-75 system displays, EP functions, and switch actions to maintain an optimal air picture and to control radar emissions. Recommended EP and EMCON measures and levels to the crew as appropriate. Selected appropriate video(s) to neutralize the effects of anomalous propagation, thunderstorms, and unusual weather conditions. Selected appropriate video(s) to detect jammers and associated jammer track(s). When necessary, coordinated with other C2 units and agencies to identify and locate jammers or other sources of interference. Committed errors or omissions that did not jeopardize mission accomplishment.

7.2.14.3. **U.** Failed to promptly inform the ASO/T when EA was experienced. Failed to use AN/TPS-75 system displays, EP functions, and switch actions to maintain an optimal air picture and/or control radar emissions. Failed to recommend EP and/or EMCON measures and levels to the crew when appropriate. Failed to select the appropriate video(s) to neutralize the effects of anomalous propagation, thunderstorms, and/or unusual weather conditions. Failed to select appropriate video(s) to detect jammers and associated jammer track(s). Did not coordinate with other C2 units and agencies to identify and locate jammers or other sources of interference. Committed errors or omissions that jeopardized mission accomplishment.

7.2.15. AREA 15—ANTI-RADIATION MISSILE (ARM) PROCEDURES

7.2.15.1. **Q.** Recognized or received ARM attack profile warning and notified the crew. Complied with ARM attack checklist. Conducted ARM defense procedures as required and recommended actions to counter ARM tactics.

7.2.15.2. **Q-.** Recognized or received ARM attack profile warning and notified the crew. Complied with ARM attack checklist. Conducted ARM defense procedures as required and recommended actions to counter ARM tactics. Committed errors or omissions that did not adversely affect mission accomplishment.

7.2.15.3. **U.** Failed to recognize ARM attack profile and/or receive ARM profile warning. Failed to notify the crew. Failed to comply with ARM attack checklist. Failed to conduct ARM defense procedures as required and/or recommend actions to counter ARM tactics. Committed errors or omissions that jeopardized mission accomplishment.

7.2.16. AREA 16—BATTLE MANAGEMENT (N/A)

7.2.17. AREA 17—CREW LEADERSHIP (N/A)

7.2.18. AREA 18—TACTICAL DATA LINK (TDL) OPERATIONS (N/A)

7.2.19. AREA 19—WEATHER INPUTS

7.2.19.1. **Q.** Extracted weather information (air pressure, air temperature, and relative humidity) from a weather report. Interpreted and entered weather information into the radar system using the Radar Control Panel (RCP)IAW unit checklists.

7.2.19.2. **Q-.** Extracted weather information (air pressure, air temperature, and relative humidity) from a weather report. Interpreted and entered weather information into the radar system using the Radar Control Panel (RCP)IAW unit checklists. Committed errors or omissions that did not adversely affect mission accomplishment.

7.2.19.3. **U.** Failed to extract weather information (air pressure, air temperature, and relative humidity) from a weather report. Failed to correctly interpret and enter weather information into the radar system using the Radar Control Panel (RCP)IAW unit checklists. Committed errors or omissions that resulted in mission failure.

7.2.20. AREA 20—SYSTEM OPERATIONS

7.2.20.1. **Q.** Controlled, configured, and monitored the operational status of the AN/TPS-75 radar using the RCP IAW unit checklists. Coordinated with the crew to accomplish a correlation check with the theater designated senior radar element. Evaluated remote radar data for correlation. Ensured data was received on all tracks

within the area of interest of the AOR. Conducted PREP assessment IAW directives. Coordinated with radar maintenance personnel to ensure optimum levels of radar performance.

7.2.20.2. **Q-**. Controlled, configured, and monitored the operational status of the AN/TPS-75 radar using the RCP IAW unit checklists. Coordinated with the crew to accomplish a correlation check with the theater designated senior radar element. Evaluated remote radar data for correlation. Ensured data was received on all tracks within the area of interest of the AOR. Conducted PREP assessment IAW directives. Coordinated with radar maintenance personnel to ensure optimum levels of radar performance. Committed errors or omissions that did not jeopardize mission accomplishment.

7.2.20.3. **U**. Failed to control, configure, and monitor the operational status of the AN/TPS-75 radar using the RCP IAW unit checklists. Failed to coordinate with the crew to accomplish a correlation check with the theater designated senior radar element. Failed to evaluate remote radar data for correlation. Failed to ensure data was received on all tracks within the area of interest of the AOR. Failed to conduct PREP assessment as required by directives. Failed to coordinate with radar maintenance personnel to ensure optimum levels of radar performance. Committed errors or omissions that resulted in mission failure.

7.2.21. AREA 21—FORWARD TELL OPERATIONS

7.2.21.1. **Q**. Performed Voice Tell operations IAW AFI 13-1 CRC, Vol. 3 and AFTTP 3-1 as directed.

7.2.21.2. **Q-**. Performed Voice Tell operations IAW AFI 13-1 CRC, Vol. 3 and AFTTP 3-1 as directed. Committed errors or omissions that did not adversely affect mission accomplishment.

7.2.21.3. **U**. Failed to perform Voice Tell operations IAW AFI 13-1 CRC, Vol. 3 and AFTTP 3-1 as directed. Committed errors or omissions that jeopardized mission accomplishment.

7.2.22. AREA 22—DOCUMENTATION

7.2.22.1. **Q**. Submitted EA and Air Force Spectrum Interference Resolution (AFSIR) reports IAW directives when jamming and/or interference were encountered. Ensured the single word PREP assessment was recorded in the operations logbook/AF Form 4145 as applicable.

7.2.22.2. **Q-**. Submitted EA and AFSIR reports IAW directives when jamming and/or interference were encountered. Ensured the single word PREP assessment was recorded in the operations logbook/AF Form 4145 as applicable. Committed errors or omissions that did not adversely affect mission accomplishment.

7.2.22.3. **U**. Fail to submit EA and AFSIR reports IAW directives when jamming and/or interference were encountered. Failed to ensure the single word PREP assessment was recorded in the operations logbook/AF Form 4145 as applicable. Committed errors or omissions that jeopardized mission accomplishment.

7.3. The following areas are applicable to initial instructor upgrade/all subsequent periodic evaluations of instructors. Specific criteria are included in [Paragraph 2.4](#) of this instruction.

7.3.1. AREA 23—INSTRUCTIONAL ABILITY

7.3.2. AREA 24—BRIEFINGS/CRITIQUE

7.3.3. AREA 25—DEMONSTRATION AND PERFORMANCE

Chapter 8

INTERFACE CONTROL TECHNICIAN EVALUATIONS

8.1. General. This chapter contains the criteria specifying the tasks required of a qualified Interface Control Technician (ICT) IAW AFI 13-1STAN/EVAL Vol. 2. Evaluation requirements are outlined in **Table 8.1** for ICT and Instructor Interface Control Technician (IICT).

8.1.1. Evaluation Objectives.

8.1.1.1. Qualification Evaluation. The examinee will be evaluated on his/her ability to accomplish required tasks safely and effectively, IAW technical orders, manuals, directives, and operating procedures applicable to the evaluated mission (T-3). Qualification evaluations will encompass all areas identified in **Table 8.1** (T-3). The examinee must demonstrate a degree of knowledge and proficiency essential for successful mission accomplishment and safety of flight (T-3). ICT performance evaluations will be conducted either during routine daily operations or Mission Training Exercises (MTE) (T-3). Tasks not observed and assessed during the normal course of the evaluation will be evaluated separately while the examinee is on position (T-3). The evaluation requires the participation of at least one external TACS unit or agency. At least one TDL A (Link 11), B (Link 11B) or J (Link 16) will be used (T-3). Link events can occur on different days and/or with different agencies.

8.1.1.2. Mission Evaluation. ICT are waived from the mission evaluation and will become CMR upon completion of IQT (T-3).

Table 8.1. ICT Evaluation Areas (T-3).

Evaluation Areas	QUAL	INSTR	MSN
General			
1. Mission Planning	R		
2. Briefing/Debriefing	R		
3. Equipment Setup and Checkout	R		
4. Console Operations and Displays	R		
5. Positional Changeover Briefing	R		
6. Emergency Action Procedures and Equipment	R		
7. Authentication Procedures	R		
8. COMSEC (CRITICAL)	R	R	
9. Safety (CRITICAL)	R	R	
10. Aircraft Emergency (CRITICAL)	R	R	
Tactical Employment			
11. Coordination (CRITICAL)	R	R	
12. Crew Discipline (CRITICAL)	R	R	
13. Radio/Telephone (R/T) Procedures	R		

14. Electronic Protection Operations (N/A)			
15. Anti-Radiation Missile (ARM) Procedures (N/A)			
16. Battle Management (N/A)			
17. Crew Leadership (N/A)			
18. Tactical Data Link (TDL) Operations	R		
19. Air Picture Management (N/A)			
20. Recorder/Reproducer (R/R) Set Up and Operation (N/A)			
21. Printer Recorder Unit (PRU) Set Up and Operation (N/A)			
22. Database Initialization (N/A)			
23. Database/System Operations (N/A)			
24. Sensor Operations (N/A)			
Instructor only Areas (Only required for instructor qualified crew members) (Note 1)			
25. Instructional Ability	R	R	
26. Briefings/Critique	R	R	
27. Demonstration and Performance	R	R	
R = Required evaluation area. Note 1: A grade of "U" in these areas results in an overall grade of 3 for the instructor portion of the evaluation.			

8.2. Evaluation Criteria. All areas in this section will be graded using the grading policy in AFI 13-1STAN/EVAL Vol. 2 and any criteria listed within the individual areas (T-2).

8.2.1. AREA 1—MISSION PLANNING

8.2.1.1. **Q.** Extracted information from mission planning documents as directed by the ASO/T. Assisted in the preparation of information required for the crew briefing. Read and initialed all items in the OIF and/or read files.

8.2.1.2. **Q-.** Extracted information from mission planning documents as directed by the ASO/T. Assisted in the preparation of information required for the crew briefing. Read and initialed all items in the OIF and/or read files. Committed errors or omissions that did not adversely affect mission accomplishment.

8.2.1.3. **U.** Failed to extract information from mission planning documents as directed by the ASO/T. Did not assist in the preparation of information required for the crew briefing. Failed to read and/or initial all items in the OIF and/or read files. Committed errors or omissions that jeopardized mission accomplishment.

8.2.2. AREA 2—BRIEFING/DEBRIEFING

8.2.2.1. **Q.** Attended all required briefings/debriefings and extracted/provided all necessary information (i.e. unit's track number block, any participating unit, Joint Tactical Information Distribution System (JTIDS) unit (PU/JU), filter plan, etc.). Performed briefings/debriefings in an organized, logical sequence IAW applicable directives. Planned all areas necessary to conduct tasked mission(s) and conducted aircrew briefings/debriefings IAW AFI 11-214 (if applicable) and other directives.

Provided constructive feedback on team and individual performance. Provided specific instructional fixes to correct errors, and requested inputs from others. Summarized mission execution, identified lessons learned, and compared mission results with crew objectives.

8.2.2.2. **Q-**. Attended all required briefings/debriefings and extracted/provided all necessary information (i.e. unit's track number block, any PUs/JUs, filter plan, etc.). Performed briefings/debriefings in an organized, logical sequence IAW applicable directives. Planned all areas necessary to conduct tasked mission(s) and conducted aircrew briefings/debriefings IAW AFI 11-214 (if applicable) and other directives. Provided constructive feedback on team and individual performance. Provided specific instructional fixes to correct errors, and requested inputs from others. Summarized mission execution, identified lessons learned, and compared mission results with crew objectives. Committed errors or omissions that did not adversely affect mission accomplishment.

8.2.2.3. **U**. Did not attend all required briefings/debriefings and did not extract/provide all necessary information (i.e. unit's track number block, any PUs/JUs, filter plan, etc.). Did not perform briefings/debriefings in an organized, logical sequence IAW applicable directives. Failed to plan all areas necessary to conduct tasked mission(s) and conducted aircrew briefings/debriefings IAW AFI 11-214 (if applicable) and other directives. Failed to establish and maintain team concept and environment for open communications and feedback. Committed errors or omissions that jeopardized mission accomplishment.

8.2.3. AREA 3—EQUIPMENT SETUP AND CHECKOUT

8.2.3.1. **Q**. Configured OM and JM communications equipment for operations. Ensured operational checks were completed on all necessary equipment (Recorder Reproducer Unit (RRU), JTIDS Interface Bus (JIB), Joint Range Extension (JRE), JTIDS terminal, etc.) before the mission and equipment outages were reported. Ensured radios were available, frequencies assigned and cryptographic equipment loaded and configured. Performed initial data link equipment checkout. Configured the Radio Patch Panel (RPP) for operations. Set up and operated the VCAS IAW checklist. Located and explained VCAS controls and indicators. Configured the VCAS for operations as required. Accessed VCAS communications.

8.2.3.2. **Q-**. Configured OM and JM communications equipment for operations. Ensured operational checks were completed on all necessary equipment (RRU, JIB, JRE, JTIDS terminal, etc.) before the mission and equipment outages were reported. Ensured radios were available, frequencies assigned and cryptographic equipment loaded and configured. Performed initial data link equipment checkout. Configured the RPP for operations. Set up and operated the VCAS IAW checklist. Located and explained VCAS controls and indicators. Configured the VCAS for operations as required. Accessed VCAS communications. Committed errors or omissions that did not adversely affect mission accomplishment.

8.2.3.3. **U**. Failed to configure OM and/or JM communications equipment for operations. Failed to ensure operational checks were completed on all necessary equipment (RRU, JIB, JRE, JTIDS terminal, etc.) before the mission and equipment outages were reported. Failed to ensure radios were available, frequencies assigned and

cryptographic equipment loaded and configured. Did not perform initial data link equipment checkout. Failed to configure the RPP for operations. Failed to set up and/or operate the VCAS IAW checklist. Failed to locate and/or explain VCAS controls and/or indicators. Failed to configure the VCAS for operations as needed. Failed to access VCAS communications. Committed errors or omissions that jeopardized mission accomplishment.

8.2.4. AREA 4—CONSOLE OPERATIONS AND DISPLAYS

8.2.4.1. **Q.** Setup and operated the OM and JM IAW unit checklists. Located controls and indicators on the JRE and/or OCUWS control panel. Used switch actions to customize data links and the OCUWS presentation.

8.2.4.2. **Q-.** Setup and operated the OM and JM IAW unit checklists. Located controls and indicators on the JRE and/or OCUWS control panel. Used switch actions to customize data links and the OCUWS presentation. Committed errors or omissions that did not adversely affect mission accomplishment.

8.2.4.3. **U.** Failed to setup and operate the OM and JM IAW unit checklists. Failed to locate controls and indicators on the JRE and/or OCUWS control panel. Failed to use switch actions to customize the JRE and the OCUWS presentation. Committed errors or omissions that jeopardized mission accomplishment.

8.2.5. AREA 5—POSITIONAL CHANGEOVER BRIEFING

8.2.5.1. **Q.** Briefed the relieving crew member on the current operational situation before departing position. Conducted positional changeover briefing IAW checklist.

8.2.5.2. **Q-.** Briefed the relieving crew member on the current operational situation before departing position. Conducted positional changeover briefing IAW checklist. Committed errors or omissions that did not adversely affect mission accomplishment.

8.2.5.3. **U.** Failed to brief the relieving crew member on the current operational situation before departing position. Failed to follow checklist when conducting positional changeover briefing. Committed errors or omissions that jeopardized mission accomplishment.

8.2.6. AREA 6—EMERGENCY ACTION PROCEDURES AND EQUIPMENT

8.2.6.1. **Q.** Demonstrated thorough knowledge of emergency action procedures/equipment. Properly diagnosed emergency. Thoroughly familiar with additional emergency duties. Coordinated with other crew members without delay.

8.2.6.2. **Q-.** Committed errors, omissions or delays in emergency action procedures or had minor errors in knowledge of emergency procedures/equipment that did not result in an unsafe situation or jeopardize mission accomplishment.

8.2.6.3. **U.** Unsatisfactory knowledge of emergency action procedures/equipment. Misunderstood additional emergency duties. Improperly or ineffectively coordinated with other crew members causing errors, omissions, delays or confusion that resulted in an unsafe situation and/ or jeopardized mission accomplishment.

8.2.7. AREA 7—AUTHENTICATION PROCEDURES

8.2.7.1. **Q.** Authenticated voice transmission within time limits specified on authenticators.

8.2.7.2. **Q-.** Authenticated voice transmission within time limits specified on authenticators. Committed errors or omissions that did not jeopardize mission accomplishment.

8.2.7.3. **U.** Committed errors or omissions that jeopardized mission accomplishment.

8.2.8. AREA 8—COMMUNICATIONS SECURITY (COMSEC) (CRITICAL)

8.2.8.1. **Q.** Used and controlled COMSEC IAW established procedures.

8.2.8.2. **U.** Failed to use and control COMSEC IAW established procedures.

8.2.9. AREA 9—SAFETY (CRITICAL)

8.2.9.1. **Q.** Aware of and complied with all safety factors required for safe operation and mission accomplishment. Ensured appropriate safety checks were accomplished as needed. Ensured adequate coordination to prevent unsafe acts. Located safety hazards and explained proper use of safety equipment. Located electrical, fire, and safety hazards in the OM. Located and explained the proper use of fire extinguishers. Located and explained the use of the OM “Master Off” switch.

8.2.9.2. **U.** Was not aware of or did not comply with all safety factors required for safe operation or mission accomplishment. Failed to ensure appropriate safety checks were accomplished when needed. Failed to locate safety hazards and explained proper use of safety equipment. Failed to locate electrical, fire, and radiation safety hazards in the OM. Failed to locate and explain proper use of fire extinguishers. Failed to locate and explain the use of the OM “Master Off” switch. Committed errors or omissions that resulted in an unsafe act and/or jeopardized mission accomplishment.

8.2.10. AREA 10—AIRCRAFT EMERGENCIES (CRITICAL)

8.2.10.1. **Q.** Recognized the existence of an aircraft emergency. Assisted controlled aircraft experiencing an emergency in a timely manner. Coordinated responses IAW an emergency checklist. Entered the appropriate emergency point on the scope. Notified crew members of the aircraft emergency.

8.2.10.2. **U.** Failed to recognize an aircraft emergency. Failed to assist controlled aircraft experiencing an emergency. Failed to respond in a timely manner. Did not follow the aircraft emergency checklist. Failed to enter an appropriate emergency point on the scope. Did not notify crew members of aircraft emergency. Committed errors or omissions that led to the loss of the aircraft and/or aircrew, or jeopardized mission accomplishment.

8.2.11. AREA 11—COORDINATION (CRITICAL)

8.2.11.1. **Q.** Coordinated with the mission crew to ensure equipment and assets were available and used to accomplish the assigned mission. Ensured coordination and information flow within the section, across the sections, and with external agencies as required.

8.2.11.2. **U.** Failed to coordinate with the mission crew to ensure equipment and assets were available and used to accomplish the assigned mission. Failed to ensure coordination and information flow within the section, across the sections, and with external agencies as required. Committed errors or omissions that jeopardized mission accomplishment.

8.2.12. AREA 12—CREW DISCIPLINE (CRITICAL)

8.2.12.1. **Q.** Demonstrated strict professional crew discipline throughout all phases of the mission. Executed the assigned mission in a timely, efficient manner.

8.2.12.2. **U.** Failed to exhibit strict crew discipline. Violated or ignored rules or instructions. Decision or lack thereof resulted in failure to accomplish the assigned mission. Demonstrated poor judgment to the extent, that safety or mission accomplishment was compromised.

8.2.13. AREA 13—RADIO/TELEPHONE (R/T) PROCEDURES

8.2.13.1. **Q.** Employed R/T procedures IAW AFI 11-214 and AFTTP 3-1. Acknowledged all communications.

8.2.13.2. **Q-.** Employed R/T procedures with errors or omissions that did not jeopardize mission accomplishment. Performance included errors, omissions, or delays that did not jeopardize mission accomplishment or safety.

8.2.13.3. **U.** Failed to employ R/T procedures IAW AFI 11-214 and AFTTP 3-1. Did not acknowledge all communications.

8.2.14. AREA 14—ELECTRONIC PROTECTION OPERATIONS (N/A)

8.2.15. AREA 15—ANTI-RADIATION MISSILE (ARM) PROCEDURES (N/A)

8.2.16. AREA 16—BATTLE MANAGEMENT (N/A)

8.2.17. AREA 17—CREW LEADERSHIP (N/A)

8.2.18. AREA 18—TACTICAL DATA LINK (TDL) OPERATIONS

8.2.18.1. **Q.** Conducted data link operations as directed. Modified data link data base information as directed. Used switch actions to initiate, build and maintain a Link 11A link. Reported Link 11A problems IAW established procedures. Used switch actions to initiate, build and maintain a Link 11B link. Reported Link 11B problems IAW established procedures. Used switch actions to initiate, build and maintain Link-1 and Link 16 links. Reported Link-1 and/or Link 16 problems IAW established procedures. Used DCN to coordinate with other data link agencies. Coordinated the designation and use of frequencies and/or channels assigned to interface data links and voice coordination networks. Implemented changes in interface configurations as directed. Built and implemented data link filters as required. Recommended changes in data link configurations to the AST. Interpreted and responded to data link messages in a timely manner.

8.2.18.2. **Q-.** Conducted data link operations as directed. Modified data link data base information as directed. Used switch actions to initiate, build and maintain a Link 11A. Reported Link 11A problems IAW established procedures. Used switch actions to

initiate, build and maintain a Link 11B link. Reported Link 11B problems IAW established procedures. Used switch actions to initiate, build and maintain Link-1 and Link 16 links. Reported Link-1 and/or Link 16 link problems IAW established procedures. Used DCN to coordinate with other data link agencies. Coordinated the designation and use of frequencies and/or channels assigned to interface data links and voice coordination networks. Implemented changes in interface configurations as directed. Built and implemented data link filters as required. Recommended changes in data link configurations to the AST. Interpreted and responded to data link messages in a timely manner. Committed errors or omission that did not jeopardize mission accomplishment.

8.2.18.3. U. Failed conduct data link operations as directed. Failed to modified data link data base information as directed. Failed to use switch actions to initiate, build and maintain a Link 11A. Failed to report Link 11A problems IAW established procedures. Did not use switch actions to initiate, build and maintain a Link 11B. Failed to report Link 11B problems IAW established procedures. Failed to use switch actions to initiate, build and maintain Link-1 and Link 16 links. Failed to report Link-1 and/or Link 16 problems IAW established procedures. Failed to use DCN to coordinate with other data link agencies. Did not coordinate the designation and use of frequencies and/or channels assigned to interface data links and voice coordination networks. Did not implement changes in interface configurations as directed. Failed to build and implement data link filters as required. Did not recommend changes in data link configurations to the AST. Failed to interpret and respond to data link messages in a timely manner. Committed errors or omissions that jeopardized mission accomplishment.

8.2.19. **AREA 19—AIR PICTURE MANAGEMENT (N/A)**

8.2.20. **AREA 20—RECORDER/REPRODUCER (R/R) SET UP AND OPERATION (N/A)**

8.2.21. **AREA 21—PRINTER RECORDER UNIT (PRU) SET UP AND OPERATION (N/A)**

8.2.22. **AREA 22—DATA BASE INITIALIZATION (N/A)**

8.2.23. **AREA 23—DATA BASE/SYSTEM OPERATIONS (N/A)**

8.2.24. **AREA 24—SENSOR OPERATIONS (N/A)**

8.3. The following areas are applicable to initial instructor upgrade/all subsequent periodic evaluations of instructors. Specific criteria are included in [Paragraph 2.4](#) of this instruction.

8.3.1. **AREA 25—INSTRUCTIONAL ABILITY**

8.3.2. **AREA 26—BRIEFINGS/CRITIQUE**

8.3.3. **AREA 27—DEMONSTRATION AND PERFORMANCE**

Chapter 9

SURVEILLANCE TECHNICIAN EVALUATIONS

9.1. General. This chapter contains the criteria specifying the tasks required of a qualified Surveillance Technician (ST) IAW AFI 13-1STAN/EVAL Vol. 2. Evaluation requirements are outlined in **Table 9.1** for ST and Instructor Surveillance Technician (IST).

9.1.1. Evaluation Objectives.

9.1.1.1. Qualification Evaluation. The examinee will be evaluated on his/her ability to accomplish required tasks safely and effectively, IAW technical orders, manuals, directives, and operating procedures applicable to the evaluated mission (T-3). Qualification evaluations will encompass all areas identified in **Table 9.1** (T-3). The examinee must demonstrate a degree of knowledge and proficiency essential for successful mission accomplishment and safety of flight (T-3). ST qualification evaluations will be conducted, at a minimum, with a surveillance team during a live/virtual/constructive mission (T-3). Tasks not observed and assessed during the normal course of the evaluation will be evaluated separately while the examinee is on position (T-3). All efforts should be made to conduct the evaluation with a full operations crew. When possible the evaluation will be conducted in a controlled radar and communications jamming environment; otherwise, radar and communications jamming may be simulated (T-3).

9.1.1.2. Mission Evaluation. The examinee will be evaluated on his/her ability to accomplish required tasks safely and effectively, IAW technical orders, manuals, directives, and operating procedures applicable to the evaluation areas table (T-3). Mission evaluations will encompass all required areas identified in **Table 9.1** for the mission profile performed (T-3). ST mission evaluations will be conducted to the maximum extent possible with a full operations crew at a minimum, with a surveillance team during a live/virtual/constructive mission (T-3). The examinee must demonstrate a degree of knowledge and proficiency essential for successful mission accomplishment, profile execution, and safety of flight (T-3). When possible, MSN evaluations should replicate large force employment scenarios with supporting theater documents (SPINS, ROE, ATO/ACO, etc.), mission packages, and C2EW and HHQ integration. The evaluation should include participation of at least one or more external TACS units and, when possible, conducted with a full operational crew. When possible the evaluation will be conducted in a controlled radar and communications jamming environment; otherwise, radar and communications jamming may be simulated (T-3).

9.1.1.3. There will be instances where an examinee, during the mission, accomplished all areas required for both the qualification and the mission evaluations. In this case, the evaluations will be annotated as a QUAL/MSN evaluation (T-3). Acceptability of required activity will be based on the evaluator's determination that all areas required for a mission and a qualification evaluation have been met (T-3).

Table 9.1. ST Evaluation Areas (T-3).

Evaluation Areas	QUAL	INSTR	MSN
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General			
1. Mission Planning	R		R
2. Briefing/Debriefing	R		R
3. Equipment Setup and Checkout	R		
4. Console Operations and Displays	R		
5. Positional Changeover Briefing			R
6. Emergency Action Procedures and Equipment	R		
7. Authentication Procedures			R
8. COMSEC (CRITICAL)	R	R	R
9. Safety (CRITICAL)	R	R	R
10. Aircraft Emergency (CRITICAL)	R	R	R
Tactical Employment			
11. Coordination (CRITICAL)	R	R	R
12. Crew Discipline (CRITICAL)	R	R	R
13. Radio/Telephone (R/T) Procedures	R		R
14. Electronic Protection (EP) Operations			R
15. Anti-Radiation Missile (ARM) Procedures (N/A)			
16. Battle Management (N/A)			
17. Crew Leadership (N/A)			
18. Tactical Data Link (TDL) Operations (N/A)			
19. Air Picture Maintenance	R		R
20. Database Initialization (N/A)			
21 Forward Tell Operations	R		
22. Track Identification	R		R
Instructor only Areas (Only required for instructor qualified crew members) (Note 1)			
23. Instructional Ability	R	R	R
24. Briefings/Critique	R	R	R
25. Demonstration and Performance	R	R	R
R = Required evaluation area.			
Note 1: A grade of “U” in these areas results in an overall grade of 3 for the instructor portion of the evaluation.			

9.2. Evaluation Criteria. All areas in this section will be graded using the grading policy in AFI 13-1STAN/EVAL Vol. 2 and any criteria listed within the individual areas (T-2).

9.2.1. AREA 1—MISSION PLANNING

9.2.1.1. **Q.** Extracted information from mission planning documents as directed by the ASO/T. Read and initialed all items in the OIF and/or read files.

9.2.1.2. **Q-** Extracted information from mission planning documents as directed by the ASO/T. Read and initialed all items in the OIF and/or read files. Committed errors or omissions that did not adversely affect mission accomplishment.

9.2.1.3. **U.** Failed to extract information from mission planning documents as directed by the ASO/T. Failed to read and/or initial all items in the OIF and/or read files. Committed errors or omissions that could have jeopardized mission accomplishment.

9.2.2. AREA 2—BRIEFING/DEBRIEFING

9.2.2.1. **Q.** Attended all required briefings/debriefings and extracted/provided all necessary information. Performed briefings/debriefings in an organized, logical sequence IAW applicable directives. Provided constructive feedback on team and individual performance. Provided specific instructional fixes to correct errors, and requested inputs from others. Summarized mission execution, identified lessons learned, and compared mission results with crew objectives.

9.2.2.2. **Q-** Attended all required briefings/debriefings. Extracted/provided information or conducted briefings/debriefings and/or ensured the aircrew was thoroughly briefed on all aspects of the mission. Provided constructive feedback on team and individual performance. Provided specific instructional fixes to correct errors, and requested inputs from others. Summarized mission execution, identified lessons learned, and compared mission results with crew objectives. Committed errors or omissions that did not jeopardize mission accomplishment.

9.2.2.3. **U.** Failed to attend all required briefings/debriefings and extract/provide all necessary information. Failed to establish and maintain team concept and environment for open communications and feedback. Committed errors or omissions that jeopardized mission accomplishment.

9.2.3. AREA 3—EQUIPMENT SETUP AND CHECKOUT

9.2.3.1. **Q.** Ensured operational checks were completed on all equipment before mission. Ensured equipment outages were reported. Ensured the required radios were available, frequencies assigned and cryptographic equipment loaded and configured. Configured the VCAS for operations as required and accessed as needed IAW checklists. Setup and operated the OCUWS to optimize situational awareness IAW checklists.

9.2.3.2. **Q-** Ensured operational checks were completed on all equipment before mission. Ensured equipment outages were reported. Ensured the required radios were available, frequencies assigned and cryptographic equipment loaded and configured. Configured the VCAS for operations as required and accessed as needed IAW checklists. Setup and operated the OCUWS to optimize situational awareness IAW checklists. Committed errors or omissions that did not adversely affect mission accomplishment.

9.2.3.3. **U.** Failed to ensure operational checks were completed on all equipment before mission. Failed to ensure equipment outages were reported. Failed to ensure the required radios were available, frequencies assigned and cryptographic equipment loaded and configured. Failed to configure the VCAS for operations as required and accessed as needed IAW checklists. Failed to setup and operate the OCUWS to optimize situational

awareness IAW checklists. Committed errors or omissions that could have jeopardized mission accomplishment.

9.2.4. AREA 4—CONSOLE OPERATIONS AND DISPLAYS

9.2.4.1. **Q.** Interpreted, initiated, and updated data for computer displays. Accomplished switch actions and responded to alarms and alerts. Performed surveillance-related console operations and switch actions to maintain an accurate air picture.

9.2.4.2. **Q-.** Interpreted, initiated, and updated data for computer displays. Accomplished switch actions and responded to alarms and alerts. Performed surveillance-related console operations and switch actions to maintain an accurate air picture. Committed errors or omissions that did not adversely affect mission accomplishment.

9.2.4.3. **U.** Failed to interpret, initiate, and update data for computer displays. Failed to accomplish switch actions and respond to alarms and alerts. Did not perform surveillance-related console operations and switch actions to maintain an accurate air picture. Committed errors or omissions that jeopardized mission accomplishment.

9.2.5. AREA 5—POSITIONAL CHANGEOVER BRIEFING

9.2.5.1. **Q.** Briefed the relieving crew member on the current operational situation before departing position. Conducted positional changeover briefing IAW checklist.

9.2.5.2. **Q-.** Briefed the relieving crew member on the current operational situation before departing position. Conducted positional changeover briefing IAW checklist. Committed errors or omissions that did not adversely affect mission accomplishment.

9.2.5.3. **U.** Failed to brief the relieving crew member on the current operational situation before departing position. Did not conduct positional changeover briefing IAW checklist. Committed errors or omissions that jeopardized mission accomplishment.

9.2.6. AREA 6—EMERGENCY PROCEDURES AND EQUIPMENT

9.2.6.1. **Q.** Demonstrated thorough knowledge of emergency procedures/equipment. Properly diagnosed emergency. Thoroughly familiar with additional emergency duties. Coordinated with other crew members without delay.

9.2.6.2. **Q-.** Committed errors, omissions or delays in emergency procedures or had minor errors in knowledge of emergency procedures/equipment that did not result in an unsafe situation or jeopardize mission accomplishment.

9.2.6.3. **U.** Unsatisfactory knowledge of emergency procedures/equipment. Misunderstood additional emergency duties. Improperly or ineffectively coordinated with other crew members causing errors, omissions, delays or confusion that resulted in an unsafe situation and/ or jeopardized mission accomplishment.

9.2.7. AREA 7—AUTHENTICATION PROCEDURES

9.2.7.1. **Q.** Authenticated voice transmission within time limits specified on authenticators.

9.2.7.2. **Q-**. Authenticated voice transmission within time limits specified on authenticators. Committed errors or omissions that did not jeopardize mission accomplishment.

9.2.7.3. **U**. Committed errors or omissions that jeopardized mission accomplishment.

9.2.8. AREA 8—COMMUNICATIONS SECURITY (COMSEC) (CRITICAL)

9.2.8.1. **Q**. Used and controlled COMSEC IAW established procedures.

9.2.8.2. **U**. Failed to use and control COMSEC IAW established procedures.

9.2.9. AREA 9—SAFETY (CRITICAL)

9.2.9.1. **Q**. Aware of and complied with all safety factors required for safe operation and mission accomplishment. Ensured adequate coordination to prevent unsafe acts. Located safety hazards and explained proper use of safety equipment. Located electrical, fire, and radiation safety hazards in the OM. Located and explained the use of fire extinguishers. Located and explained the use of the OM “Master Off” switch.

9.2.9.2. **U**. Was not aware of or did not comply with all safety factors required for safe operation or mission accomplishment. Failed to locate safety hazards and explain the proper use of safety equipment. Failed to locate electrical, fire, and radiation safety hazards in the OM. Failed to locate and explain proper use of fire extinguishers. Failed to locate and explain the use of the “OM Master Off” switch. Committed errors or omissions that could have jeopardized personnel safety or equipment.

9.2.10. AREA 10—AIRCRAFT EMERGENCIES (CRITICAL)

9.2.10.1. **Q**. Recognized and reacted to assist an aircraft experiencing an emergency situation. Recognized emergency symbology and codes on the scope. Coordinated emergency responses in a timely manner IAW emergency checklist. Entered an emergency point on the scope.

9.2.10.2. **U**. Failed to recognize and/or assist an aircraft experiencing an emergency situation. Failed to recognize emergency symbology or codes on the scope. Failed to coordinate emergency responses in a timely manner IAW emergency checklist. Failed to enter an emergency point on the scope. Committed errors or omissions that endangered aircrews and aircraft and jeopardized mission accomplishment.

9.2.11. AREA 11—COORDINATION (CRITICAL)

9.2.11.1. **Q**. Coordinated with the mission crew to ensure equipment and assets are available and used to accomplish the assigned mission. Ensured coordination and information flow within the section and cross-sections as required.

9.2.11.2. **U**. Failed to coordinate with the mission crew to ensure equipment and assets are available and used to accomplish the assigned mission. Failed to ensure coordination and information flow within the section and cross-sections as required. Committed errors or omissions that jeopardized mission accomplishment.

9.2.12. AREA 12—CREW DISCIPLINE (CRITICAL)

9.2.12.1. **Q**. Demonstrated strict professional crew discipline throughout all phases of the mission. Executed the assigned mission in a timely, efficient manner.

9.2.12.2. **U.** Failed to exhibit strict crew discipline. Violated or ignored rules or instructions. Decision or lack thereof resulted in failure to accomplish the assigned mission. Demonstrated poor judgment to the extent, that safety or mission accomplishment was compromised.

9.2.13. AREA 13—RADIO/TELEPHONE (R/T) PROCEDURES

9.2.13.1. **Q.** Employed R/T procedures IAW AFI 11-214 and AFTTP 3-1. Acknowledged all communications.

9.2.13.2. **Q-.** Employed R/T procedures with errors or omissions that did not jeopardize mission accomplishment. Performance included errors, omissions, or delays that did not jeopardize mission accomplishment or safety.

9.2.13.3. **U.** Failed to employ R/T procedures IAW AFI 11-214 and AFTTP 3-1. Did not acknowledge all communications.

9.2.14. AREA 14—ELECTRONIC PROTECTION (EP) OPERATIONS

9.2.14.1. **Q.** Recognized and reported EA indications to the ASO/T.

9.2.14.2. **Q-.** Recognized and reported EA indications to the ASO/T. Committed errors or omissions that did not adversely affect mission accomplishment.

9.2.14.3. **U.** Failed to recognize and/or report EA indications to the ASO/T. Committed errors or omissions that could have jeopardized mission accomplishment.

9.2.15. AREA 15—ANTI-RADIATION MISSILE (ARM) PROCEDURES (N/A)

9.2.16. AREA 16—BATTLE MANAGEMENT (N/A)

9.2.17. AREA 17—CREW LEADERSHIP (N/A)

9.2.18. AREA 18—TACTICAL DATA LINK (TDL) OPERATIONS (N/A)

9.2.19. AREA 19—AIR PICTURE MAINTENANCE

9.2.19.1. **Q.** Interpreted track symbols and modifiers. Read and interpreted information displayed in the Hooked Data Readout (HDRO). Used switch actions associated with initiating and maintaining tracks. Used switch actions to hook tracks on the OCUWS. Used switch actions to maintain surveillance tracks within 2 nm of radar data.

9.2.19.2. **Q-.** Interpreted track symbols and modifiers. Read and interpreted information displayed in the HDRO. Used switch actions associated with initiating and maintaining tracks. Used switch actions to hook tracks on the OCUWS. Used switch actions to maintain surveillance tracks within 2 nm of radar data. Committed errors or omissions that did not adversely affect mission accomplishment.

9.2.19.3. **U.** Failed to use system displays and switch actions to display and maintain an air picture. Failed to interpret track symbols and modifiers. Failed to read and interpret information displayed in the HDRO. Failed to use switch actions associated with initiating and maintaining tracks. Failed to use switch actions to hook tracks on the OCUWS. Failed to maintain surveillance tracks within 2 nm of radar data. Committed errors or omissions that could have jeopardized mission accomplishment.

9.2.20. AREA 20—DATABASE INITIALIZATION (N/A)

9.2.21. AREA 21—FORWARD TELL OPERATIONS

9.2.21.1. **Q.** Performed Voice Tell operations IAW AFI 13-1 CRC, Vol. 3 and AFTTP 3-1 as directed.

9.2.21.2. **Q-.** Performed Voice Tell operations IAW AFI 13-1 CRC, Vol. 3 and AFTTP 3-1 as directed. Committed errors or omissions that did not adversely affect mission accomplishment.

9.2.21.3. **U.** Failed to perform Voice Tell operations IAW AFI 13-1 CRC, Vol. 3 and AFTTP 3-1 as directed. Committed errors or omissions that could have jeopardized mission accomplishment.

9.2.22. AREA 22—TRACK IDENTIFICATION

9.2.22.1. **Q.** Identified air tracks in the assigned area IAW identification procedures specified by the ROE. Located and used switch actions to identify tracks. Interrogated Mode 4 and used switch actions required to display appropriate ID symbology.

9.2.22.2. **Q-.** Identified air tracks in the assigned area IAW identification procedures specified by the ROE. Located and used switch actions to identify tracks. Interrogated Mode 4 and used switch actions required to display appropriate ID symbology. Committed errors or omissions that did not jeopardize mission accomplishment.

9.2.22.3. **U.** Failed to identify air tracks in the assigned area IAW identification procedures specified by the ROE. Did not comply with identification procedures specified in the ROE. Failed to locate and/or use switch actions to identify tracks. Failed to interrogate Mode 4. Failed to use switch actions to display appropriate ID symbology. Committed errors or omissions that could have resulted in fratricide or jeopardized mission accomplishment.

9.3. The following areas are applicable to initial instructor upgrade/all subsequent periodic evaluations of instructors. Specific criteria are included in [Paragraph 2.4](#) of this instruction.

9.3.1. AREA 23—INSTRUCTIONAL ABILITY**9.3.2. AREA 24—BRIEFINGS/CRITIQUE****9.3.3. AREA 25—DEMONSTRATION AND PERFORMANCE**

TOD D. WOLTERS, Lt Gen, USAF
Deputy Chief of Staff for Operations

Attachment 1**GLOSSARY OF REFERENCES AND SUPPORTING INFORMATION*****References***

AFPD 10-9, 8 March 2007, *Lead Command Designation and Responsibilities for Weapon Systems*

AFPD 13-1, 6 August 2012, *Command and Control (C2) Enterprise*

AFPD 13-2, 7 August 2007, *Air Traffic, Airfield, Airspace and Range Management*

AFI 11-214, 14 August 2012, *Air Operations Rules and Procedures*

AFI 13-1 CRC Vol. 1, (TBD), *Control and Reporting Center—Training*

AFI 13-1 CRC Vol. 3, 21 January 2010, *Operating Procedures—Control and Reporting Center*

AFI 13-1Stan/Eval Vol. 2, 11 December 2009, *Ground Command and Control Systems Standardization/Evaluation Program—Organization and Administration*

AFI 33-324, 6 March 2013, *The Air Force Information Collections and Reports Management Program*

AFI 33-360, 25 September 2013, *Publications and Forms Management*

AFMAN 33-363, 1 March 2008, *Management of Records*

AFTTP 3-1, 6 February 2014, *General Planning*

AFTTP 3-1, 23 August 2013, *CRC*

AFTTP 3-1, 2 May 2014, *Threat Guide*

AFTTP 3-1, 1 February 2013, *Theater Air Control System*

Prescribed Forms

None

Adopted Forms

AF Form 847, 22 September 2009, *Recommendation for Change of Publication*

AF Form 4145, 29 January 2010, *Daily Activity Log*

Abbreviations and Acronyms

ABM—Air Battle Manager

ACC—Air Combat Command

ACG—Air Control Group

ACM—Airspace Control Measure

ACO—Airspace Control Order

ADA—Air Defense Artillery

ADAFCO—Air Defense Artillery Fire Control Officer

AFI—Air Force Instruction
AFSC—Air Force Specialty Code
AFSIRS—Air Force Spectrum Interference Resolution Systems
AFTTP—Air Force Tactics and Techniques Pamphlet
ANG—Air National Guard
AOR—Area of Responsibility
ARM—Anti-Radiation Missile
ASO—Air Surveillance Officer
AST—Air Surveillance Technician
ATO—Air Tasking Order
AWACS—Airborne Warning and Control System
AWO—Air Weapons Officer
AZLAN—Azimuth and Range
BMC2—Battle Management Command and Control
C2—Command and Control
C2EW—Command, Control, and Electronic Warfare
CAP—Combat Air Patrol
CAS—Close Air Support
COMSEC—Communications Security
CSAR—Combat Search and Rescue
DCN—Datalink Coordination Network
DOC—Designed Operational Capability
DoD—Department of Defense
EA—Electronic Attack
EMCON—Emission Control
EMI—Electromagnetic Interference
EP—Electronic Protection
EPT—Electronic Protection Technician
EW—Electronic Warfare
HDRO—Hooked Data Readout
HHQ—Higher Headquarters
HQ—Headquarters

IAW—In accordance with
ICT—Interface Control Technician
ID—Identification
IFF—Identification Friend or Foe
INIT—Initial
IPL—Initiate Program Load
JAOP—Joint Air Operations Plan
JIB—JTIDS Interface Bus
JRE—Joint Range Extension
JTIDS—Joint Tactical Information Distribution System
JU—JTIDS Unit
LOP—Local Operating Procedures
MAJCOM—Major Command
MCC—Mission Crew Commander
MCE—Modular Control Equipment
MCS—Modular Control System
MQF—Master Question File
MQT—Mission Qualification Training
MSN—Mission
MTE—Mission Training Exercise
NAF—Numbered Air Force
N/A—Not Applicable
NGB—National Guard Bureau
NM—Nautical mile
OCR—Office of Collateral Responsibility
OCUWS—Operator Console Unit Workstation
OIF—Operations Information File
OM—Operations Module
OPLAN—Operations Plan
OPORD—Operations Order
OPR—Office of Primary Responsibility
OPREP—Operational Report

OPTASK LINK—Operational Tasking Data Link

OSS—Operations Support Squadron

PACAF—Pacific Air Force

PM&T—Performance Monitor and Test

PR—Personnel Recovery

PREP—Periodic Radar Evaluation Program

PU—Participating Unit

Q—Qualified

QUAL—Qualification

RDS—Records Disposition Schedule

R/RU—Recorder/Reproducer Unit

R/T—Radio/Telephone

RAP—Recognizable Air Picture/Ready Aircrew Program

RCP—Radar Control Panel

ROE—Rules of Engagement

RPP—Radar Patch Panel

RQ—Requalification

RU—Reporting Unit

SD—Senior Director

SDC—Situation Display Console

SEE—Stan Eval Examiner

SIF—Selective Identification Feature

SPINS—Special Instructions

SSU—System Server Unit

ST—Surveillance Technician

TACS—Theater Air Control System

TDL—Tactical Digital Information Link

TOD—Time of Day

U—Unqualified

UQ—Unqualified

USAFE—AFAFRICA—United States Air Forces Europe-Air Forces Africa

VCAS—Voice Control Access System

VCAU—Voice Communications Access Unit

WD—Weapons Director